

## Product Description SALSA<sup>®</sup> Reference Selection DNA SD039-S02

### Version S02.

**Catalogue number: SD039:** SALSA Reference Selection DNA, 6 reactions

To be used with the following SALSA MLPA probemix: P050-C1 CAH, 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)).

**Intended use:** This SD039 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 21% of all DNA samples tested are suitable as reference DNA for the P050 version C1 MLPA probemix for CAH.

The SD039 DNA facilitates the identification of suitable reference DNA samples. We recommend the use of this SD039 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 reference selection purposes should be performed with 5 µl of Reference Selection DNA. Include three reactions with SALSA Reference Selection DNA SD039 in the initial MLPA experiment to identify suitable reference DNA samples.

**Product Description:** SD039 Reference Selection DNA is human genomic DNA purified from a selected cell line. This cell line contains one copy/cell for the two *CYP21A2* alleles at the I2G mutation location and one copy/cell for the sequences detected by the chromosome Y specific MLPA probes in the P050-C1 probemix. Furthermore, it contains two copies/cell of each sequence detected by the other MLPA probes in this probemix, including the six other *CYP21A2* and the four *CYP21A1P* pseudogene specific MLPA probes. For more details, see Table 1 and the SALSA MLPA probemix P050-C1 CAH product description.

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](http://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](http://www.mlpa.com); [www.mlpa.eu](http://www.mlpa.eu)

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**Table 1. Probe targets in SD039-S02 Reference Selection DNA**

Product	Gene/Exon	Probe length	Probe ID	Present in version no.	Copy number	Remarks
P050	Reference	130 nt	00797-L13645	C1	2	
	Reference	135 nt	16316-L21434	C1	2	
	TNXB Exon 35	148 nt	19037-L14637	C1	2	
	Reference	166 nt	10729-L11311	C1	2	
	CYP21A1P Exon 3	184 nt	15221-L20262	C1	2	Del 8nt location
	CYP21A2 Exon 3	190 nt	15221-L20261	C1	2	Del 8nt location
	CYP21A2 Exon 7	214 nt	17261-L21169	C1	2	F306+T location
	CYP21A1P Exon 7	220 nt	17261-L21170	C1	2	F306+T location
	Reference	226 nt	14471-L16191	C1	2	
	CYP21A2 Exon 6	232 nt	17270-L16990	C1	2	V237E location
	CYP21A2 Exon 6	238 nt	17271-L16989	C1	2	M239K location
	Reference	244 nt	16307-L19696	C1	2	
	CYP21A2 Exon 3	254 nt	16645-L20231	C1	1	I2G location, C-allele
	CYP21A2 Exon 3	259 nt	16645-L20299	C1	1	I2G location, A-allele
	CYP21A2 Exon 4	265 nt	15220-L20667	C1	2	I172N location
	CYP21A1P Exon 4	272 nt	15220-L20668	C1	2	I172N location
	Reference	279 nt	04988-L20303	C1	2	
	CYP21A1P Exon 1	292 nt	15945-L18079	C1	2	Exon 1, -113 SNP
	CYP21A2 Exon 1	309 nt	15944-L18351	C1	2	Exon 1, -113 SNP
	TNXB Exon 35	318 nt	15230-L14636	C1	2	
	TNXB Exon 23	326 nt	19038-L17756	C1	2	
	Reference	336 nt	09027-L09281	C1	2	
	ATF6B Exon 1B	346 nt	01979-L20800	C1	2	
	TNXB Exon 31	355 nt	15232-L01515	C1	2	
	TNXB Exon 19	364 nt	15235-L04400	C1	2	
	TNXB Exon 26	373 nt	15233-L15002	C1	2	
	Reference	382 nt	13329-L14755	C1	2	

**Note:** 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 more information, like corresponding gene transcripts

**Implemented Changes – compared to the previous SD039 product description versions**

*Version 08 – 28 January 2019 (12)*

- Reference DNA was renamed to Reference Selection DNA.
- The position of the *ATF6B* probe was updated to exon 1B.
- Number of reactions is adjusted on page 1

*Version 07 – 9 May 2017 (12)*

- SD lot removed on page 1.
- Information about experimental set up added on page 1.
- Contact details adjusted on page 1.
- Various minor textual and layout changes.

*Version 06 – 5 October 2015 (09)*

- Product description adapted to a new lot.
- Minor textual and layout changes.

*Version 05 (05)*

- Minor textual changes.
- Logo added in header.

*Version 04 (05)*

- Information about how much SD to use per MLPA reaction added.
- Correction in length(nt) in table 1.
- Minor layout change.

*Version 03 (04)*

- Product description adapted to a new lot.
- Table added.
- Minor textual changes.
- Change in contact details MRC-Holland.

*Version 02 (01)*

- Product description adjusted to new lot version.

*Version 01 (01)*

- Not applicable, new document.