Product Description
SALSA® Reference Selection DNA SD098-S02

Version S02
Compared to version S01, SD098-S02 contains genomic DNA purified from a different cell line.

Catalogue number
- **SD098**: SALSA Reference Selection 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. Reference Selection 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 Reference Selection DNA SD098 is a research use only (RUO) reagent to be used in combination with SALSA MLPA probemix P497-A1 Opsin, a SALSA MLPA Reagent Kit and Coffalyser.Net™ analysis software for the selection of suitable reference samples. We recommend the use of this Reference Selection DNA SD098 only for initial experiments on DNA samples from healthy individuals with the intention to select suitable reference samples. Reference Selection DNA should never be used as a reference sample in the MLPA data analysis of patient samples.

Reference 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.

Experimental set up
MLPA reactions for reference selection purposes should be performed with 5 µl of Reference Selection DNA. Initial experiments for the selection of suitable reference samples should include three reactions with SALSA Reference Selection DNA SD098 as well as reactions on a number of independent DNA samples from healthy individuals. Patient samples should not be included in the experiment.

Data analysis
Coffalyser.Net software should be used for analysis of MLPA experiments. Coffalyser.Net software is freely available at www.mrcholland.com. When the SD098 reactions are set as reference samples in the data analysis, suitable reference samples will be those samples from healthy individuals that have a final probe ratio between 0.80 and 1.20 for all probes included in the probemix. Suitable reference samples selected as described can subsequently be used as reference samples in experiments with patient samples.

Reference Selection DNA content
SD098 consists of human genomic DNA purified from a selected male cell line. This cell line has one copy of *OPN1LW* and one copy of *OPN1MW* (for details, see Table 1).

Table 1. P497 Opsin probe targets in Reference Selection DNA SD098-S02

Probe length (nt)	Gene/Exon	Probe ID	Probemix Version	Copy number	Remarks
130	Reference	13499-L02104	A1	1	-
136	*OPN1LW/MW* exon 1	23216-L32792	A1	2	Detects *OPN1LW* and *OPN1MW*
142	*OPN1LW/MW* intron 4	23237-L32885	A1	2	Detects *OPN1LW* and *OPN1MW*
148	*OPN1MW* exon 1	21603-L30185	A1	1	-
154	*OPN1LW/MW* exon 6	21608-L30190	A1	2	Detects *OPN1LW* and *OPN1MW*
160	Reference	21139-L29421	A1	1	-
166	*OPN1LW* exon 1	21605-L31767	A1	1	-
174	*OPN1LW/MW* exon 4	21606-L31768	A1	2	Detects *OPN1LW* and *OPN1MW* / detects wild-type sequence of the c.607T>C; p.Cys203Arg mutation
184	Reference	13928-L15467	A1	1	-
190	*OPN1LW* exon 2	21609-L32700	A1	1	-
196	*OPN1MW* exon 2	21609-L32702	A1	1	-
202	*OPN1LW* exon 4	21611-L30198	A1	1	-
208	*OPN1MW* exon 4	21611-L30196	A1	1	-
213	Reference	13203-L19630	A1	1	-
219	*OPN1LW/MW* intron 1	23217-L32886	A1	2	Detects *OPN1LW* and *OPN1MW*
225	*OPN1LW* exon 3	21613-L30201	A1	1	Detects wild-type sequence; c.457C; p.153L
230	*OPN1MW* exon 3	21613-L30199	A1	1	Detects wild-type sequence; c.457A; p.153M
236	*OPN1LW* exon 5	21615-L30200	A1	1	-
242	*OPN1MW* exon 5	21615-L30202	A1	1	-
247	*OPN1LW/MW* exon 2	23218-L32795	A1	2	Detects *OPN1LW* and *OPN1MW*
256	Reference	04994-L04380	A1	1	-
265	*OPN1LW/MW* exon 6	23223-L32794	A1	2	Detects *OPN1LW* and *OPN1MW*
274	*OPN1LW/MW* intron 3	23219-L32754	A1	2	Detects *OPN1LW* and *OPN1MW*
282	*OPN1LW/MW* exon 5	23221-L32759	A1	2	Detects *OPN1LW* and *OPN1MW*
301	Reference	07096-L08395	A1	1	-
310	Locus control region	21601-L30183	A1	1	-
319	*OPN1LW* exon 5	21602-L32704	A1	1	-
326	*OPN1MW* exon 5	21602-L32706	A1	1	-
337	Reference	19394-L25801	A1	1	-
348	*OPN1LW/MW* intron 5	23222-L32753	A1	2	Detects *OPN1LW* and *OPN1MW*
355	Locus control region	21612-L30197	A1	1	-
364	Reference	15361-L18375	A1	1	-

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

More information: www.mrcholland.com; www.mrcholland.eu	
🏭	MRC Holland bv; Willem Schoutenstraat 1 1057 DL, Amsterdam, The Netherlands
E-mail	info@mrcholland.com (information & technical questions) order@mrcholland.com (orders)
Phone	+31 888 657 200

Implemented changes in the product description

Version S02-01 – 19 December 2024 (03)
   - Product description adapted to a new product version (version number changed).
Version S01-02 – 11 October 2024 (03)
   - SD number in the footer corrected to SD098.
Version S01-01 – 14 December 2023 (03)
   - Not applicable, new document.