

## Product Description SALSA<sup>®</sup> Reference DNA SD038-S01

**Catalogue number: SD038**

**Reference DNA SD038:** Contains 100 µl SALSA SD038 Reference DNA at a concentration of 10 ng/µl, which is sufficient for 20 MLPA reactions. MLPA reactions for identification of suitable reference DNA samples should be performed with 5 µl of Reference DNA. This Reference DNA is to be used with the following SALSA MLPA probemixes: P110-B2 FCGR mix 1 and P111-B2 FCGR mix 2.

**Intended use:**

**Binning.** SD038 DNA contains targets for all probes in SALSA MLPA probemixes P110-B2 FCGR mix 1 and P111-B2 FCGR mix 2 and can therefore be used for binning of 9 and 7 SNP probes included in the P110-B2 and P111-B2 probemixes respectively (for details; see Table 1 and 2). 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 SD038 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).

**Identification of suitable reference DNA samples.** SD038 DNA can be used to identify suitable reference DNA samples for the MLPA probemix versions as specified above and in Table 1 and Table 2. 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. We recommend the use of this SD038 Reference 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).**

**Product Description:** SD038 Reference DNA is a mixture of human cell-line DNA and artificial DNA covering several probe target sequences. SD038 DNA contains an established number of template copies for each probe in SALSA MLPA probemixes P110-B2 and P111-B2 (for details; see Table 1 and 2). Both the MLPA reaction and analysis of results should be performed according to the instructions in the General Protocol for Multiplex Ligation-dependent Probe Amplification (MLPA<sup>®</sup>). 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 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.

<b>More information:</b> <a href="http://www.mlpa.com">www.mlpa.com</a> ; <a href="http://www.mlpa.eu">www.mlpa.eu</a>	
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**Table 1. P110-B2 FCGR mix 1 probe targets in SD038-S01 Reference DNA**

Product	Gene / Exon	Probe Length	Probe ID	Present in probemix version	Copy number	Remarks
P110	Reference	130 nt	00797-L00463	B2	2	
	Reference	138 nt	09824-L24582	B2	2	
	FCGR2A exon 1	142 nt	03605-L02972	B2	2	
	FCGR2C exon 7	148 nt	03610-L02977	B2	2	
	Reference	154 nt	02679-L02144	B2	2	
	FCGR3A/3B exon 3a	160 nt	03616-L02983	B2	3	SNP probe
	HSPA7 exon 1	166 nt	13416-L14646	B2	2	
	Reference	172 nt	12741-L21983	B2	2	
	FCGR2B/2C exon 1	180 nt	03611-L02978	B2	4	
	FCGR2B/2C exon 1	187 nt	09357-L06620	B2	1	SNP probe
	FCGR2A exon 1	196 nt	03606-L15071	B2	2	
	FCGR2B/2C exon 5	202 nt	04812-L04198	B2	4	SNP probe
	FCGR2C exon 6	211 nt	03609-L02976	B2	2	
	FCGR2B exon 4	220 nt	03619-L10739	B2	2	
	Reference	230 nt	01487-L01095	B2	2	
	Reference	238 nt	14970-L16706	B2	2	
	FCGR2A exon 3b	247 nt	04821-L04195	B2	2	SNP probe
	FCGR2B/2C exon 1	254 nt	07014-L10737	B2	1	SNP probe
	Reference	265 nt	01325-L07456	B2	2	
	FCGR2B exon 7	274 nt	03613-L02980	B2	2	
	FCGR2A exon 5	283 nt	03608-L10738	B2	2	
	Reference	292 nt	03162-L02603	B2	2	
	LMNA exon 2	301 nt	01916-L01460	B2	2	
	FCGR3B exon 5	310 nt	03618-L02985	B2	2	
	HSPA6 exon 1	319 nt	13415-L14874	B2	2	
	FCGR2B exon 8	328 nt	03612-L06202	B2	2	
	FCGR3A exon 1	337 nt	03614-L02981	B2	2	
	FCGR2A exon 4	355 nt	04813-L04187	B2	1	SNP probe
	FCGR3B exon 1	361 nt	03615-L12809	B2	2	
	FCGR2C exon 3	367 nt	07010-L14886	B2	2	SNP probe
	Reference	373 nt	02560-L02023	B2	2	
	PAK3 exon 7	382 nt	02908-L02302	B2	2	
	FCGR3A exon 4	391 nt	04816-L04190	B2	2	SNP probe
	FCGR2C exon 3	400 nt	04818-L04192	B2	2	SNP probe
	Reference	409 nt	14405-L21970	B2	2	

**Note:** Exon numbering used here may differ from literature! Please notify us of any mistakes: [info@mlpa.com](mailto:info@mlpa.com).

For more information about the probemix content, please consult production description of SALSA MLPA probemix P110-B2 FCGR mix 1.

**Table 2. P111-B2 FCGR mix 2 probe targets in SD038-S01 Reference DNA**

Product	Gene / Exon	Probe Length	Probe ID	Present in probemix version	Copy number	Remarks
P111	Reference	130 nt	00797-L00463	B2	2	
	Reference	138 nt	09824-L24582	B2	2	
	FCGR2B/2C exon 3a	142 nt	04817-L04191	B2	2	
	FCGR2A exon 7	148 nt	03610-L02989	B2	4	
	Reference	154 nt	02679-L02144	B2	2	
	FCGR3B exon 3a	166 nt	03616-L02990	B2	1	SNP probe
	Reference	172 nt	12741-L21983	B2	2	
	FCGR2B/2C exon 1	180 nt	03611-L02978	B2	4	
	FCGR2B/2C exon 1	187 nt	07013-L10734	B2	4	SNP probe
	FCGR2B exon 5	202 nt	04812-L04186	B2	1	SNP probe
	FCGR2A exon 6	211 nt	04815-L04189	B2	2	
	FCGR2C exon 4	220 nt	03619-L02994	B2	2	
	Reference	230 nt	01487-L01095	B2	2	
	Reference	238 nt	14970-L16706	B2	2	
	FCGR3B exon 4	247 nt	06639-L06203	B2	1	SNP probe
	FCGR2B/2C exon 1	255 nt	07014-L10735	B2	4	SNP probe
	Reference	265 nt	01325-L07456	B2	2	
	FCGR2B exon 7	274 nt	03613-L02980	B2	2	
	FCGR2B exon 3a	283 nt	07011-L06617	B2	2	
	Reference	292 nt	03162-L02603	B2	2	
	LMNA exon 2	301 nt	01916-L01460	B2	2	
	FCGR3A exon 5	310 nt	03618-L02993	B2	2	
	Reference	319 nt	06552-L06110	B2	2	
	FCGR2B exon 8	328 nt	03612-L06202	B2	2	
	FCGR2A exon 4	355 nt	04814-L10736	B2	2	SNP probe
	FCGR3B exon 1	361 nt	03615-L12809	B2	2	
	Reference	373 nt	02560-L02023	B2	2	
	PAK3 exon 7	382 nt	02908-L02302	B2	2	
	FCGR3A/3B exon 4	391 nt	04816-L04196	B2	2	SNP probe
	Reference	400 nt	12777-L11598	B2	2	

**Note:** Exon numbering used here may differ from literature! Please notify us of any mistakes: [info@mlpa.com](mailto:info@mlpa.com).

For more information about the probemix content, please consult production description of SALSA MLPA probemix P111-B2 FCGR mix 2.

#### Implemented Changes – compared to the previous SD038 product description versions

*Version 02 – 13 July 2016 (10)*

- Copy number corrected for P111 FCGR2B/2C exon 3a probe at 142 nt in Table 2.
- Lot number removed throughout document.
- Various minor textual and layout changes.

*Version 01 (05)*

- Not applicable, new document.