





Certificate of Analysis SALSA® MLPA® Probemix P080 Craniofacial

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| Catalogue # | P080-025R, P080-050R, P080-100R | |
| Product name | Probemix P080 Craniofacial | |
| LOT | C2-1118 | |
|  | 25, 50, or 100 reactions. | |
| Shipping conditions | Dry ice or cooling elements. | |
|  | Store upon arrival between -25°C and -15°C. | |
|  | Expiration date: November 2023, when stored at recommended conditions. This product should not be frozen/thawed more than 25 times. | |
| Use | This product has been developed to determine the DNA copy number of various exons of the <i>FGFR1</i> , <i>FGFR2</i> , <i>FGFR3</i> , <i>TWIST1</i> , <i>MSX2</i> , <i>ALX4</i> , <i>ALX3</i> , <i>ALX1</i> , <i>RUNX2</i> and <i>EFBN1</i> genes, as described in table 1 and 2 of the product description. This probemix is designed for use only in combination with SALSA MLPA reagent kits and Coffalyser.Net as described in the MLPA General Protocol. | |
| Quality control specifications | <ul style="list-style-type: none"> - Sufficient distance between peaks, absence of extra or shoulder peaks, and completeness of hybridisation of each individual probe, as tested on Applied Biosystems 3130 and Beckman/SCIEX GeXP sequencers. - Standard deviation of each individual probe ≤ 0.10, when tested on 23 different DNA samples of healthy individuals, extracted by various methods. - Each individual probe meets reaction-specific criteria when tested on a single DNA sample under various experimental conditions. - No DNA controls result in only five major peaks shorter than 121 nucleotides (nt): four Q-fragments at 64, 70, 76 and 82 nt, and one 19 nt peak corresponding to the unused portion of the fluorescent PCR primer. Non-specific peaks longer than 121 nt AND with a height <25% of the median of the four Q-fragments are not expected to affect MLPA reactions when sufficient (50-250 ng) sample DNA is used. | Test result |
| | | PASS |

None of the ingredients are derived from humans, animals, or pathogenic bacteria. 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.

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

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SALSA MLPA Probemix P080-C2 Craniofacial sample picture

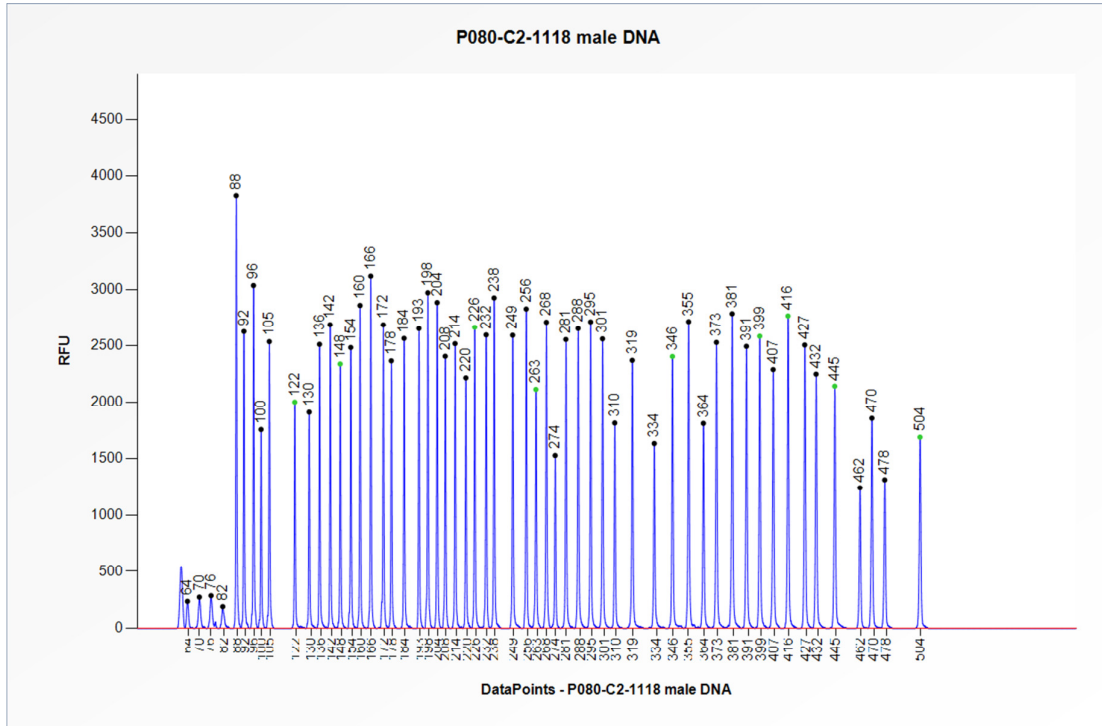


Figure 1. Capillary electrophoresis pattern from a sample of approximately 50 ng human male control DNA analysed with SALSA MLPA Probemix P080 Craniofacial (C2-1118).

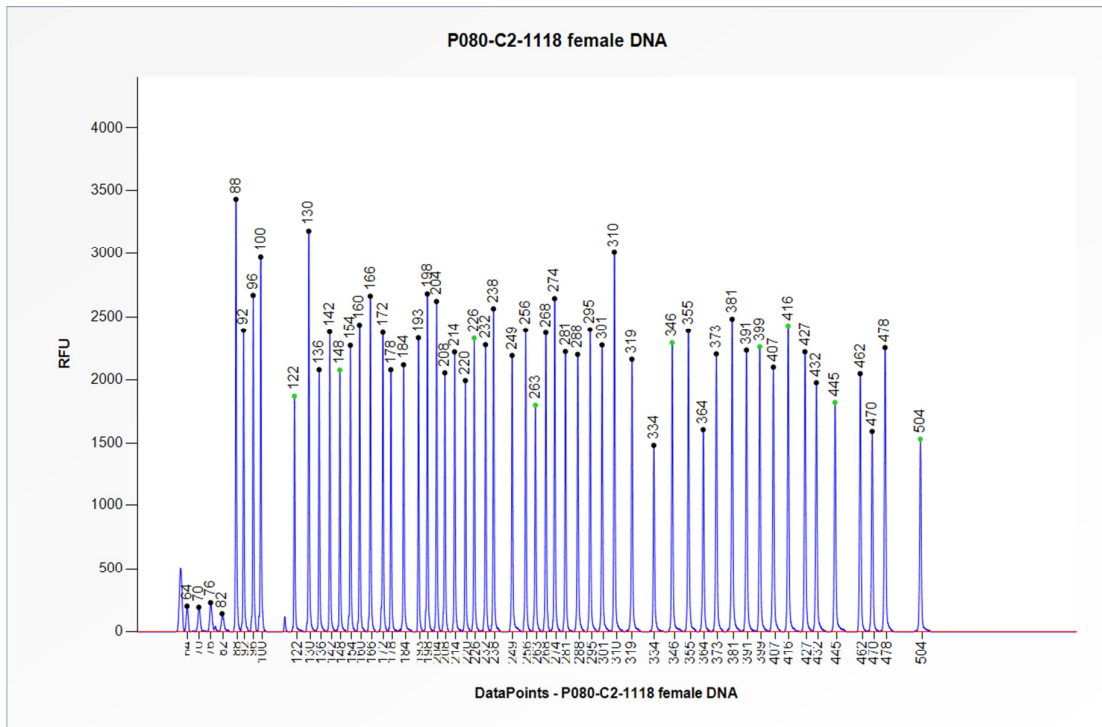


Figure 2. Capillary electrophoresis pattern from a sample of approximately 50 ng human female control DNA analysed with SALSA MLPA Probemix P080 Craniofacial (C2-1118).

Certificate of Analysis

This lot was certified by MRC-Holland on 25 January 2019.

This certificate is a declaration of analysis at the time of the manufacturing process. All assays were run in compliance with manufacturer's instructions for use.

| Implemented changes in the COA |
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| <i>Version 01 – 25 January 2019 (04)</i> - Not applicable, new document. |