

## DNA PROFILE CERTIFICATE

### General Information:

| Test Animal      |                 |
|------------------|-----------------|
| ANIMAL ID/NAME   | CEF180439       |
| MICROCHIP NUMBER | 982000409208997 |
| SPECIES          | Cattle          |
| GENDER           | Male            |
| OWNER            | PF SCHEEPERS    |
| LAB. NO          | ZOBOS20-07409   |

### DNA Profiling Results:

| STR Marker | Allele 1     | Allele 2 |
|------------|--------------|----------|
| TGLA227    | 89           | 97       |
| BM2113     | 125          | 133      |
| TGLA053    | Not Detected |          |
| ETH10      | 211          | 221      |
| ILSTS011   | Not Detected |          |
| SPS113     | 140          | 140      |
| RM067      | 90           | 90       |
| TGLA126    | 115          | 115      |
| TGLA122    | 143          | 151      |
| INRA023    | 202          | 208      |

| STR Marker | Allele 1     | Allele 2 |
|------------|--------------|----------|
| BM1818     | 266          | 266      |
| ETH003     | 117          | 127      |
| ETH225     | 148          | 148      |
| BM1824     | 188          | 188      |
| SPS115     | 248          | 248      |
| CSRM060    | 96           | 100      |
| MGTG4B     | 137          | 147      |
| CSSM066    | 185          | 189      |
| ILSTS006   | Not Detected |          |

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



**Dr Christiaan Labuschagne**  
**Genomics Manager**

09 September 2020

**Date**

**\*\*See disclaimer on reverse side**

**ISAG**  
**Institutional Member**

CVML15/AG/00226

06-Mar-15

**\*\*Disclaimer**

**Whatever is contained in this report is subject to the following:**

- 1** Inqaba Biotechnical Industries Pty Ltd and the divisions thereof (Registration number: 2001/011245/07) accepts that the biological specimen(s) provided, originates from the relevant animal(s) as indicated on the relevant specimen(s) provided
- 2** It is the responsibility of the client that all biological samples are available or has previously been submitted, and corresponds with all requested samples listed on the sample submission form. Inqaba Biotechnical Industries Pty Ltd and the divisions thereof does not accept responsibility for the effect of any absent samples on the analysis results;
- 3** Inqaba Biotechnical Industries Pty Ltd and the divisions thereof accepts that all genetic profiles and/or samples from external sources are correctly labelled and accurate;
- 4** Inqaba Biotechnical Industries Pty Ltd and the divisions thereof shall not be responsible for human and/or technical errors that could not have been foreseen;
- 5** This document is solely for the use of the addressee and only in connection for the purpose set out in this document. Inqaba Biotechnical Industries Pty Ltd and the divisions thereof assume liability or responsibility to any third party to which this document is disclosed or otherwise made available;
- 6** Nothing in this document should be construed as advice to proceed or not to proceed with any specific course of action, as it was not prepared for that purpose;
- 7** The DNA profile is based on a preliminary marker panel that is subject to modification pending additional genetic information;
- 8** It is the sender's responsibility to obtain permits when sending samples where required;
- 9** Inqaba Biotechnical Industries Pty Ltd and the divisions thereof reserves the right to decline testing of samples;
- 10** No guarantees are made with regards to turn-around time and results, and no liability will be accepted for any delays.

