

## DNA PROFILE CERTIFICATE

### General Information:

| Test Animal      |                        |
|------------------|------------------------|
| ANIMAL ID/NAME   | TOR180041              |
| MICROCHIP NUMBER | -                      |
| SPECIES          | CATTLE                 |
| GENDER           | Male                   |
| OWNER            | TEMPEVALE BONSMARAS CC |
| LAB. NO          | ZOBOS20-08690          |

### DNA Profiling Results:

| STR Marker | Allele 1     | Allele 2 |
|------------|--------------|----------|
| TGLA227    | 77           | 77       |
| BM2113     | 137          | 139      |
| TGLA053    | Not Detected |          |
| ETH10      | 211          | 213      |
| ILSTS011   | Not Detected |          |
| SPS113     | 141          | 153      |
| RM067      | 90           | 96       |
| TGLA126    | 115          | 117      |
| TGLA122    | 137          | 137      |
| INRA023    | 196          | 196      |

| STR Marker | Allele 1     | Allele 2 |
|------------|--------------|----------|
| BM1818     | Not Detected |          |
| ETH003     | 117          | 127      |
| ETH225     | 140          | 146      |
| BM1824     | 182          | 192      |
| SPS115     | 248          | 261      |
| CSRM060    | 100          | 102      |
| MGTG4B     | 135          | 137      |
| CSSM066    | 187          | 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. Christian Labuschagne

30 October 2020

Date