



ZooOmics™ is a division of Inqaba Biotechnical Industries Pty Ltd  
info@ZooOmics.co.za  
525 Justice Mahomed Str, Muckleneuk, Pretoria 0002  
PO Box 14356, Hatfield, Pretoria 0028

## CATTLE MUTATION ANALYSIS REPORT

### Order Information

|                 |                                                                        |                |            |
|-----------------|------------------------------------------------------------------------|----------------|------------|
| Name:           | Meyer Boerdery                                                         | Print Date:    | 2024/10/28 |
| Telephone No.:  | (83) 463-1156                                                          | Date received: | 2024/10/21 |
| E-mail address: | <a href="mailto:ronelmeyer1958@gmail.com">ronelmeyer1958@gmail.com</a> | No. samples:   | 83         |

### Description of Procedure

Molecular genotyping for Double Muscling (Myostatin: F94L, Q204X and Nt821). The genotype for each known mutation region is presented below where WT refers to the wild type genotype and MUT refers to the mutated genotype. All mutant genotypes will be highlighted in red.

| Lab No.        | Sample ID | Double Muscling (Myostatin) |    |       |     |      |     |
|----------------|-----------|-----------------------------|----|-------|-----|------|-----|
|                |           | Q204X                       |    | Nt821 |     | F94L |     |
| ZOCA2024-78653 | RLR240016 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78654 | RLR240017 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78655 | RLR240018 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78656 | RLR240019 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78657 | RLR240020 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78658 | RLR240021 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78659 | RLR240022 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78660 | RLR240023 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78661 | RLR240027 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78662 | RLR240030 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78663 | RLR240032 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78664 | RLR240033 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78665 | RLR240035 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78666 | RLR240037 | WT                          | WT | WT    | MUT | WT   | WT  |
| ZOCA2024-78667 | RLR240038 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78668 | RLR240039 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78669 | RLR240042 | WT                          | WT | WT    | WT  | WT   | MUT |
| ZOCA2024-78670 | RLR240043 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78671 | RLR240044 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78672 | RLR240045 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78673 | RLR240046 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78674 | RLR240047 | WT                          | WT | WT    | MUT | WT   | WT  |
| ZOCA2024-78675 | RLR240048 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78676 | RLR240049 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78677 | RLR240050 | WT                          | WT | WT    | WT  | WT   | WT  |
| ZOCA2024-78678 | RLR240052 | WT                          | WT | WT    | MUT | WT   | WT  |
| ZOCA2024-78679 | RLR240053 | WT                          | WT | WT    | WT  | WT   | WT  |

|                |           |  |    |    |    |     |    |    |
|----------------|-----------|--|----|----|----|-----|----|----|
| ZOCA2024-78680 | RLR240054 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78681 | RLR240055 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78682 | RLR230020 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78683 | RLR230021 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78684 | RLR230023 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78685 | RLR230027 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78686 | RLR230031 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78687 | RLR230032 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78688 | RLR230034 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78689 | RLR230036 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78690 | RLR230037 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78691 | RLR230040 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78692 | RLR230041 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78693 | RLR230044 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78694 | RLR230048 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78695 | RLR230049 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78696 | RLR230051 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78697 | RLR230053 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78698 | RLR230057 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78699 | RLR230058 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78700 | RLR230060 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78701 | RLR230065 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78702 | RLR230067 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78703 | RLR230068 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78704 | RLR230070 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78705 | RLR230071 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78706 | RLR230072 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78707 | RLR230073 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78708 | RLR230074 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78709 | RLR230075 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78710 | RLR230079 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78711 | RLR230084 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78712 | RLR230087 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78713 | RLR230089 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78714 | RLR230091 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78715 | RLR230092 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78716 | RLR230093 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78717 | RLR230094 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78718 | RLR230095 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78719 | RLR230098 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78720 | RLR230100 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78721 | RLR230101 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78722 | RLR230102 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78723 | RLR230103 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78724 | RLR230105 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78725 | RLR230106 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78726 | RLR230107 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78727 | RLR230108 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78728 | RLR230110 |  | WT | WT | WT | MUT | WT | WT |

|                |           |  |    |    |    |     |    |    |
|----------------|-----------|--|----|----|----|-----|----|----|
| ZOCA2024-78729 | RLR230112 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78730 | RLR240001 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78731 | RLR240007 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78732 | RLR240008 |  | WT | WT | WT | MUT | WT | WT |
| ZOCA2024-78733 | RLR240011 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78734 | RLR240014 |  | WT | WT | WT | WT  | WT | WT |
| ZOCA2024-78735 | RLR240015 |  | WT | WT | WT | WT  | WT | WT |



**Dr Christiaan Labuschagne**  
Genomics Manager



**Seyuri Rajaruthnam**  
Analyst

2024/10/28

**Date**

**\*\*Disclaimer**

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

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;

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;

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;

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;

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 do not assume liability or responsibility to any third party to which this document is disclosed or otherwise made available;

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;

It is the sender's responsibility to obtain permits when sending samples where required;

Inqaba Biotechnical Industries Pty Ltd and the divisions thereof reserves the right to decline testing of samples;

No guarantees are made with regards to turn-around time and results, and no liability will be accepted for any delays.