



ZooOmics™ is a division of Inqaba Biotechnical Industries Pty Ltd
info@ZooOmics.co.za
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PO Box 14356, Hatfield, Pretoria 0028

CATTLE MUTATION ANALYSIS REPORT

Order Information			
Name:	CG Sheard	Print Date:	4/28/2023
Telephone No.:	0823755920	Date received:	4/24/2022
E-mail address:	farm@sheard.co.za and chris@sheard.co.za		No. samples:

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	
ZOCA2023-47581	CS200010	WT	WT	WT	WT	WT	WT
ZOCA2023-47582	CS200018	WT	WT	WT	WT	WT	WT
ZOCA2023-47583	CS200027	WT	WT	WT	WT	WT	WT
ZOCA2023-47584	CS200028	WT	WT	WT	WT	WT	WT
ZOCA2023-47585	CS200032	WT	WT	WT	WT	WT	WT
ZOCA2023-47586	CS200049	WT	WT	WT	WT	WT	WT
ZOCA2023-47587	CS200050	WT	WT	WT	MUT	WT	WT
ZOCA2023-47588	CS200051	WT	WT	WT	WT	WT	WT
ZOCA2023-47589	CS200057	WT	WT	WT	WT	WT	WT
ZOCA2023-47590	CS200062	WT	WT	WT	WT	WT	WT
ZOCA2023-47591	CS200067	WT	WT	WT	WT	WT	WT
ZOCA2023-47592	CS200070	WT	WT	WT	WT	WT	WT
ZOCA2023-47593	CS200073	WT	WT	WT	MUT	WT	WT
ZOCA2023-47594	CS200078	WT	WT	WT	WT	WT	WT
ZOCA2023-47595	CS200091	WT	WT	WT	WT	WT	WT
ZOCA2023-47596	CS210002	WT	WT	WT	MUT	WT	WT
ZOCA2023-47597	CS210003	WT	WT	WT	MUT	WT	WT
ZOCA2023-47598	CS210007	WT	WT	WT	MUT	WT	WT

Dr Christiaan Labuschagne
Genomics Manager

4/28/2023

Date

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The DNA profile is based on a preliminary marker panel that is subject to modification pending additional genetic information;

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.



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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200010
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47581-DC

qualifies as the offspring of

Male

Animal ID/Name	GN140156
Microchip Number	-
DNA Profile Certificate Number	U254016

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.



Dr Christiaan Labuschagne
Genomics Manager

08 May 2023

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200018
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47582-DC

qualifies as the offspring of

Male

Animal ID/Name	ELS110014
Microchip Number	-
DNA Profile Certificate Number	115130

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.


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Genomics Manager

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200027
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47583-DC

qualifies as the offspring of

Male

Animal ID/Name	GN150237
Microchip Number	-
DNA Profile Certificate Number	U298477

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤1 mismatched marker.


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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200028
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47584-DC

qualifies as the offspring of

Male

Animal ID/Name	GN150237
Microchip Number	-
DNA Profile Certificate Number	U298477

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.



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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200032
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47585-DC

qualifies as the offspring of

Male

Animal ID/Name	CS140015
Microchip Number	-
DNA Profile Certificate Number	C18-10852

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤1 mismatched marker.



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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200049
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47586-DC

qualifies as the offspring of

Male

Animal ID/Name	CS140015
Microchip Number	-
DNA Profile Certificate Number	C18-10852

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤1 mismatched marker.



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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200062
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47590-DC

qualifies as the offspring of

Male

Animal ID/Name	ELS110014
Microchip Number	-
DNA Profile Certificate Number	115130

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.


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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200067
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47591-DC

qualifies as the offspring of

Male

Animal ID/Name	ELS110014
Microchip Number	-
DNA Profile Certificate Number	115130

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤1 mismatched marker.



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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200070
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47592-DC

qualifies as the offspring of

Male

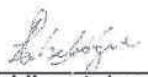
Animal ID/Name	SS160016
Microchip Number	Not Provided
DNA Profile Certificate Number	C18-07381

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200073
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47593-DC

qualifies as the offspring of

Male

Animal ID/Name	SS160016
Microchip Number	Not Provided
DNA Profile Certificate Number	C18-07381

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200078
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47594-DC

qualifies as the offspring of

Male

Animal ID/Name	SS160016
Microchip Number	Not Provided
DNA Profile Certificate Number	C18-07381

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

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Dr Christiaan Labuschagne
Genomics Manager

08 May 2023

Date

****See disclaimer on reverse side**

****Disclaimer**

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

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



Tel: 071 493 21 37
Email: info@zooOmics.co.za
Physical Address: 525 Justice Mahomed Str, Muckleneuk, Pretoria 0002
Postal Address: PO Box 14356, Hatfield, Pretoria 0028

DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS200091
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47595-DC

qualifies as the offspring of

Male

Animal ID/Name	SS160016
Microchip Number	Not Provided
DNA Profile Certificate Number	C18-07381

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤1 mismatched marker.

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS210002
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47596-DC

qualifies as the offspring of

Male

Animal ID/Name	SS160016
Microchip Number	Not Provided
DNA Profile Certificate Number	C18-07381

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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ARAB

0516478000
MNR. G.J. PIENAAR
THE GLEN
POSBUS 16
ABERDEEN
6270

RASKODE: ARH / Genootskap Debiteurs nr.:PIE007
VROULIKE DIERE

Naam	Rekenaar- nommer	Skyfie- nommer	Reg. no.	DNS Nommer No.	Paspoort datum	Geboorte- datum	Oud.Gesl	Status	Afd	O	Moer	Vaar
FS PEGASUS BELLE (ET)	0012868061	-	30053	Q1300035	-	14/10/2012	126	F	REG	SP	Y	PATIENCE V
FS TWIST N SHOUT	0012982179	-	30289	Q1300612	-	26/02/2013	122	F	REG	SP	Y	WR TUPELO HONEY
SHEIKH ANGELIKA	0012783742	-	16305	Q1000254	-	13/02/2009	170	F	REG	SP	Y	PS MINUET NC
SHEIKH BALINKA	0012481529	-	11816	Q500996	-	30/11/2004	221	F	REG	SP	Y	PS MINUET NC
SHEIKH SCARLET LADY	0012540001	-	13669	Q701279	-	30/03/2007	193	F	REG	SP	Y	BINT MINUET
SHEIKH SHIMMER 'N-SHINE	0013292370	-	33383	Q1900153	-	03/11/2017	66	F	REG	SP	Y	FS TWIST N SHOUT
												FS SPARTACUS (ET)

VROULIKE DIERE: 6

ARH DIERE: 6

TOTALE AANTAL DIERE: 6



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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS210003
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47597-DC

qualifies as the offspring of

Male

Animal ID/Name	SS160016
Microchip Number	Not Provided
DNA Profile Certificate Number	C18-07381

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.



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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	CS210007
Microchip Number	-
DNA Profile Certificate Number	ZOCA2023-47598-DC

qualifies as the offspring of

Male

Animal ID/Name	SS160016
Microchip Number	Not Provided
DNA Profile Certificate Number	C18-07381

&

Female

Animal ID/Name	Not Applicable
Microchip Number	Not Applicable
DNA Profile Certificate Number	Not Applicable

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