

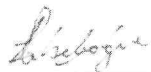


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PARENTAGE SUMMARY

OFFSPRING TESTED		QUALIFYING MOTHER		QUALIFYING FATHER	
OFFSPRING ID	ID TAG	MOTHER ID	ID TAG	FATHER ID	ID TAG
ZOCA2025-91427	A230016			C17-14655	WB160085
ZOCA2025-91428	A230052			3209U001	Red U2 Resolve 011AR03073
ZOCA2025-91429	A230068			ZOCA2023-49147	MLR130625
ZOCA2025-91430	98743214				


Candice Jooste
Analyst
Print Date: 2025/06/27


Dr Christiaan Labuschagne
Genomics Manager
Print Date: 2025/06/27

Disclaimer

Parentage is performed using the sire and dam list provided by the client.

It is the responsibility of the client to provide ZooOmics with all potential sire and/or dam candidates. This includes all AI bulls and cover bulls. Should any extra sire and/or dam candidates be added in the future, the parentage assignments may change. ZooOmics (a division of Inqaba Biotechnical Industries Pty Ltd) does not accept responsibility for the effect of any false assignments due to absent candidate sires and/or dams.

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.

This is a parentage summary, summarising the potential parentage assignments for a specific order and not an official parentage certificate. Finalised results are sent on official certificates.

This parentage summary supersedes any previously issued parentage summaries.



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CATTLE MUTATION ANALYSIS REPORT

Order Information

Name:	Aucdeen PTY Ltd	Print Date:	2025/06/25
Telephone No.:	0827725323	Date received:	2025/06/21
E-mail address:	Hannes@aucdeen.co.za	No. samples:	4

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	
ZOCA2025-91427	A230016	WT	WT	WT	WT	WT	WT
ZOCA2025-91428	A230052	WT	WT	WT	WT	WT	WT
ZOCA2025-91429	A230068	WT	WT	WT	WT	WT	WT
ZOCA2025-91430	0098743214	WT	WT	WT	WT	WT	WT

Dr Christiaan Labuschagne
Genomics Manager

Candice Jooste
Analyst

2025/06/25

Date

**Disclaimer

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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;

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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

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	0098743214
BREED	Angus
SPECIES	Bovine
GENDER	Male
OWNER	Hannes Aucamp
LAB. NO	ZOCA2025-91430

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	93
BM2113	125	141
TGLA053	176	178
ETH10	217	217
ILSTS011	266	268
SPS113	143	151
RM067	90	90
TGLA126	Not Detected	
TGLA122	Not Detected	
INRA023	206	206

STR Marker	Allele 1	Allele 2
BM1818	264	270
ETH003	117	117
ETH225	148	150
BM1824	182	188
SPS115	248	252
CSRM060	104	104
MGTG4B	135	143
CSSM066	187	187
ILSTS006	290	294

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

27 June 2025

Date

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 Institutional Member

CVML15/AG/00226

06-Mar-15

ZOCA2025-91430-DC

27-Jun-25

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	A230052
Breed	Angus
DNA Profile Certificate Number	ZOCA2025-91428-DC

qualifies as the offspring of

Male

Animal ID/Name	Red U2 Resolve 011AR03073
Breed	Angus
DNA Profile Certificate Number	3209U001

&

Female

Animal ID/Name	Not Applicable
Breed	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

27 June 2025

Date

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	A230016
BREED	Angus
SPECIES	Bovine
GENDER	Male
OWNER	Hannes Aucamp
LAB. NO	ZOCA2025-91427

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	87	87
BM2113	125	133
TGLA053	160	168
ETH10	217	217
ILSTS011	264	268
SPS113	151	153
RM067	102	102
TGLA126	Not Detected	
TGLA122	Not Detected	
INRA023	206	206

STR Marker	Allele 1	Allele 2
BM1818	262	264
ETH003	117	117
ETH225	144	146
BM1824	182	182
SPS115	254	254
CSRM060	92	102
MGTG4B	135	135
CSSM066	197	197
ILSTS006	288	292

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.



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27-Jun-25

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	A230068
BREED	Angus
SPECIES	Bovine
GENDER	Male
OWNER	Hannes Aucamp
LAB. NO	ZOCA2025-91429

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	97	97
BM2113	125	135
TGLA053	160	160
ETH10	217	217
ILSTS011	264	268
SPS113	153	153
RM067	90	102
TGLA126	Not Detected	
TGLA122	Not Detected	
INRA023	206	206

STR Marker	Allele 1	Allele 2
BM1818	262	270
ETH003	117	117
ETH225	150	150
BM1824	178	182
SPS115	248	248
CSRM060	104	104
MGTG4B	135	141
CSSM066	183	187
ILSTS006	294	294

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
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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	A230016
Breed	Angus
DNA Profile Certificate Number	ZOCA2025-91427-DC

qualifies as the offspring of

Male

Animal ID/Name	WB160085
Breed	Angus
DNA Profile Certificate Number	C17-14655

&

Female

Animal ID/Name	Not Applicable
Breed	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	A230068
Breed	Angus
DNA Profile Certificate Number	ZOCA2025-91429-DC

qualifies as the offspring of

Male

Animal ID/Name	MLR130625
Breed	Angus
DNA Profile Certificate Number	ZOCA2023-49147-DC

&

Female

Animal ID/Name	Not Applicable
Breed	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

27 June 2025

Date

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