

DNA PROFILE CERTIFICATE

General Information:

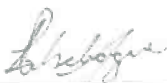
Test Animal	
ANIMAL ID/NAME	FBM230005
BREED	Beefmaster
SPECIES	Bovine
GENDER	Male
OWNER	Scheepersvly Beefmasters
LAB. NO	ZOCA2026-113229

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	83
BM2113	133	137
TGLA053	154	160
ETH10	211	221
ILSTS011	266	268
SPS113	141	143
RM067	Not Detected	
TGLA126	115	123
TGLA122	143	151
INRA023	208	214

STR Marker	Allele 1	Allele 2
BM1818	258	266
ETH003	117	123
ETH225	140	140
BM1824	180	182
SPS115	252	260
CSRM060	100	104
MGTG4B	137	147
CSSM066	181	185
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
Genomics Manager

12 June 2026

Date

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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	FBM230034
Breed	Beefmaster
DNA Profile Certificate Number	ZOCA2026-113232-DC

qualifies as the offspring of

Male

Animal ID/Name	FBM180002
Breed	Beefmaster
DNA Profile Certificate Number	VGLC-B2000112

&

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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Genomics Manager

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DNA PROFILE CERTIFICATE

General Information:

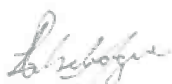
Test Animal	
ANIMAL ID/NAME	FBM230034
BREED	Beefmaster
SPECIES	Bovine
GENDER	Male
OWNER	Scheepersvly Beefmasters
LAB. NO	ZOCA2026-113232

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	91	93
BM2113	121	139
TGLA053	160	162
ETH10	211	221
ILSTS011	268	268
SPS113	141	141
RM067	Not Detected	
TGLA126	115	123
TGLA122	143	161
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	258	266
ETH003	115	117
ETH225	140	150
BM1824	178	182
SPS115	252	260
CSRM060	96	104
MGTG4B	135	135
CSSM066	185	185
ILSTS006	294	294

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	FBM230005
Breed	Beefmaster
DNA Profile Certificate Number	ZOCA2026-113229-DC

qualifies as the offspring of

Male

Animal ID/Name	FBM180002
Breed	Beefmaster
DNA Profile Certificate Number	VGLC-B2000112

&

Female

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

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	FBM230021
Breed	Beefmaster
DNA Profile Certificate Number	ZOCA2026-113231-DC

qualifies as the offspring of

Male

Animal ID/Name	FBM180002
Breed	Beefmaster
DNA Profile Certificate Number	VGLC-B2000112

&

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

12 June 2026
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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	FBM230021
BREED	Beefmaster
SPECIES	Bovine
GENDER	Male
OWNER	Scheepersvly Beefmasters
LAB. NO	ZOCA2026-113231

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	91
BM2113	133	137
TGLA053	160	178
ETH10	211	211
ILSTS011	Not Detected	
SPS113	141	153
RM067	Not Detected	
TGLA126	123	123
TGLA122	143	151
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	266	266
ETH003	117	123
ETH225	140	150
BM1824	178	180
SPS115	246	248
CSRM060	92	104
MGTG4B	135	135
CSSM066	181	189
ILSTS006	294	294

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Genomics Manager

12 June 2026

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info@ZooOmics.co.za
525 Justice Mahomed Str, Muckleneuk, Pretoria 0002
PO Box 14356, Hatfield, Pretoria 0028

CATTLE MUTATION ANALYSIS REPORT

Order Information

Name:	Scheepersvly Beefmasters	Print Date:	2026/06/12
Telephone No.:	0832616440	Date received:	2026/06/05
E-mail address:	jacques.ferreira@up.ac.za	No. samples:	6

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	
ZOCA2026-113229	FBM230005	WT	WT	WT	WT	WT	WT
ZOCA2026-113230	FBM230015	WT	WT	WT	WT	WT	WT
ZOCA2026-113231	FBM230021	WT	WT	WT	WT	WT	WT
ZOCA2026-113232	FBM230034	WT	WT	WT	WT	WT	WT
ZOCA2026-113233	FBM230039	WT	WT	WT	WT	WT	WT
ZOCA2026-113234	FBM230042	WT	WT	WT	WT	WT	WT

Dr Christiaan Labuschagne
Genomics Manager

Seyuri Rajaruthnam
Analyst

2026/06/12

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;