

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	MS200088
Breed	Bovine
DNA Profile Certificate Number	ZOCA2023-47513-DC

qualifies as the offspring of

Male

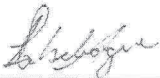
Animal ID/Name	VYF150036
Breed	BEEFMASTER
DNA Profile Certificate Number	C17-13749-DC

&

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

30 June 2023
Date

****See disclaimer on reverse side**



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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	MS200088
BREED	Bovine
SPECIES	Cattle
GENDER	Male
OWNER	MILESTONE BEEFMASTERS
LAB. NO	ZOCA2023-47513

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	89
BM2113	133	135
TGLA053	154	160
ETH10	213	217
ILSTS011	261	261
SPS113	151	153
RM067	90	90
TGLA126	117	125
TGLA122	151	151
INRA023	196	206

STR Marker	Allele 1	Allele 2
BM1818	266	266
ETH003	117	117
ETH225	141	141
BM1824	180	188
SPS115	250	260
CSRM060	100	100
MGTG4B	137	139
CSSM066	181	185
ILSTS006	292	298

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.

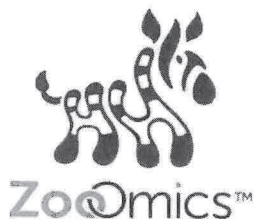
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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	MS200158
Breed	Bovine
DNA Profile Certificate Number	ZOCA2023-47516-DC

qualifies as the offspring of

Male

Animal ID/Name	VYF150036
Breed	BEEFMASTER
DNA Profile Certificate Number	C17-13749-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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	MS200158
BREED	Bovine
SPECIES	Cattle
GENDER	Male
OWNER	MILESTONE BEEFMASTERS
LAB. NO	ZOCA2023-47516

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	89	91
BM2113	139	141
TGLA053	154	158
ETH10	213	217
ILSTS011	261	264
SPS113	133	153
RM067	90	90
TGLA126	121	123
TGLA122	137	161
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	262	266
ETH003	117	117
ETH225	140	158
BM1824	182	192
SPS115	248	250
CSRM060	100	112
MGTG4B	137	151
CSSM066	185	189
ILSTS006	290	298

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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