

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	MDS180011
MICROCHIP NUMBER	-
SPECIES	CATTLE
GENDER	MALE
OWNER	MR MD SERAPELWANE
LAB. NO	ZOBOS20-09408

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	Not Detected	
BM2113	139	139
TGLA053	Not Detected	
ETH10	217	221
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	92
TGLA126	117	117
TGLA122	137	137
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	264	266
ETH003	127	127
ETH225	140	140
BM1824	178	188
SPS115	248	248
CSRM060	96	98
MGTG4B	135	141
CSSM066	189	189
ILSTS006	Not Detected	

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.



Ms Miscna Fraser
ZooOmics™ Manager

03 December 2020

Date



Dr Christiaan Labuschagne
Genomics Manager

03 December 2020

Date

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	MDS180017
MICROCHIP NUMBER	-
SPECIES	CATTLE
GENDER	MALE
OWNER	MR MD SERAPELWANE
LAB. NO	ZOBOS20-09409

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	87
BM2113	137	139
TGLA053	Not Detected	
ETH10	211	219
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	94	102
TGLA126	115	125
TGLA122	143	143
INRA023	Not Detected	

STR Marker	Allele 1	Allele 2
BM1818	Not Detected	
ETH003	121	125
ETH225	140	140
BM1824	180	188
SPS115	Not Detected	
CSRM060	100	100
MGTG4B	135	135
CSSM066	185	185
ILSTS006	Not Detected	

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	MDS190041
MICROCHIP NUMBER	-
SPECIES	CATTLE
GENDER	MALE
OWNER	MR MD SERAPELWANE
LAB. NO	ZOBOS20-09406

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	Not Detected	
BM2113	139	139
TGLA053	Not Detected	
ETH10	217	219
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	94
TGLA126	115	121
TGLA122	143	153
INRA023	208	214

STR Marker	Allele 1	Allele 2
BM1818	Not Detected	
ETH003	121	121
ETH225	140	151
BM1824	178	180
SPS115	248	248
CSRM060	92	92
MGTG4B	135	135
CSSM066	187	189
ILSTS006	Not Detected	

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.



Ms Miscna Fraser
 ZooOmics™ Manager

03 December 2020

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Dr Christiaan Labuschagne
 Genomics Manager

03 December 2020

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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	MDS190041
Microchip Number	-
DNA Profile Certificate Number	ZOBOS20-09406-DC

qualifies as the offspring of*

Male

Animal ID/Name	JL110589
Microchip Number	Not Provided
DNA Profile Certificate Number	

&

Female

Animal ID/Name	
Microchip Number	
DNA Profile Certificate Number	

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.

Ms Mischa Fraser
ZooOmics™ Manager

03 December 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

03 December 2020

Date

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	MDS190070
MICROCHIP NUMBER	-
SPECIES	CATTLE
GENDER	MALE
OWNER	MR MD SERAPELWANE
LAB. NO	ZOBOS20-09407

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	Not Detected	
BM2113	137	137
TGLA053	Not Detected	
ETH10	211	217
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	90
TGLA126	115	115
TGLA122	137	143
INRA023	196	198

STR Marker	Allele 1	Allele 2
BM1818	Not Detected	
ETH003	117	121
ETH225	151	151
BM1824	180	188
SPS115	248	248
CSRM060	96	100
MGTG4B	135	143
CSSM066	187	197
ILSTS006	Not Detected	

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Ms Miscna Fraser
ZooOmics™ Manager

03 December 2020

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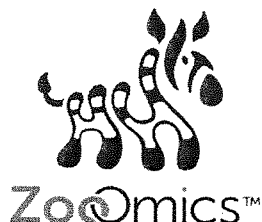


Dr Christiaan Labuschagne
Genomics Manager

03 December 2020

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	MDS190070
Microchip Number	-
DNA Profile Certificate Number	ZOBOS20-09407-DC

qualifies as the offspring of*

Male

Animal ID/Name	JL110589
Microchip Number	Not Provided
DNA Profile Certificate Number	

&

Female

Animal ID/Name	
Microchip Number	
DNA Profile Certificate Number	

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.

Ms Mischa Fraser
ZooOmics™ Manager

03 December 2020

Date

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