

SA STAMBOEK GEBORTEKENNISGEWING



SA STUD BOOK BIRTH NOTIFICATION

14070

1. Dokumentkode Document Code ANIM	2. Aksie Tipe Action Type ☒	3. Dokument Tipe Document Type ☒	4. Doel Purpose Milk ☒ Beef ☒ Dual ☒	5. NVR NFR Y
6. Deelnemerskode Participant Code 0579625 SEN	7. Geslag Sex Male ☒ Female ☐	8. Geregistreerd Registered ☒	9. Dier Raskode Animal Breed Code SEN	
10. Dier ID Animal ID Breed SEN Sex M HDM NP Year 20 Seq 0010 Reg/ R	11. Hoof ID Metode Main ID Method Tat 1 Ear 2 Tag 3 D/tag 4 Col 5 Bmd 6 Phot 7 Elec 8	Voorvoegsel: Prefix: Tiekelos		
12. Naam Name 2010	13. Sub ID Metode Sub ID Method Tat 1 Ear 2 Tag 3 D/tag 4 Col 5 Bmd 6 Phot 7 Elec 8	14. Eienaar Dier nr. Farmers Animal no. NP 2010		
17. Geboortegewig Birth Weight 34	18. Geboorteweegdatum Birth Weight Date D D M M C C Y Y 16032020	15. Dek Besonderhede Service Nat ☒ AI ☐ Implant ☐	16. Geboortedatum Birth Date D D M M C C Y Y 16032020	
22. Moeder Weegdatum Dam Weigh Date D D M M C C Y Y	23. Betroubaar Reliable Y N	19. Betroubaar Reliable Y N	20. Geboortegewig Groepkode Birth Weight Group Code Year ☐ Season ☐ Group ☐	21. Moeder Gewig Dam Weight ☐
26. Moeder Voeding Status Dam Feeding Status Ca-P ☐ Mixed ☐ No lick ☐ Concern ☐ Other lick ☐ Pastures ☐	24. Geb. Status Birth Status Single ☒ Twin ☐ Triplet ☐	25. Geslag van Tweeling Sex of Twin Male ☐ Female ☐	31. Gemak van Kalwing Ease of Calving Normal ☒ Little ☐ Serious ☐ Caesarian ☐ Cut Out ☐	
38. Kleur Colour 1 Typical 2 Red 3 Red/White 4 White/Red 5 Black 6 Yellow 7 Roan 8 White 9 Red/White Under 10 Yellow/White 11 Grey 12 Black/White 13 Whole 14 Broken	30. Kalf Status Calf Status Alive ☒ Abort <7m ☐ Abort >7m ☐ Still Born ☐ Died Birth ☐ Destroyed ☐	40. Rek. nommer Comp. number 0084138148		
41. ID nommer ID number Breed SEN Sex F HDM NP Year 16 Seq 0039 Reg/ R	42. ID nommer ID number Breed SEN Sex M HDM CN Year 15 Seq 01 Reg/ R	43. Semen Semen ☐		
44. Datum Ontvang Date Received D D M M C C Y Y	45. Veelvuldige Vaars Multiple Sires Y	46. Laagste Afdeling Lowest Section ☐		

Naam van Teler:
Name of Breeder:

NP Muller

Ek sertifiseer dat bovermelde teelbesonderhede korrek is:
I certify that the abovementioned breeding particulars are correct.

Handtekening van teler / verteenwoordiger van teler:
Signature of breeder / representative of breeder:

Voltooi deur:
Completed by:

MA

Datum:
Date:

**27/05
05/27/2020**

SA STAMBOEK GEBORTEKENNISGEWING



SA STUD BOOK BIRTH NOTIFICATION

14069

1. Dokumentkode Document Code ANIM	2. Aksie Tipe Action Type C	3. Dokument Tipe Document Type B	4. Doel Purpose M ☒ B ☒ D ☒ Milk Beef Dual	5. NVR NFR Y
6. Deelnemerskode Participant Code 0579625 SEN	7. Geslag Sex M ☒ F ☒ Male Female	8. Geregistreerd Registered R	9. Dier Raskode Animal Breed Code SEN	
10. Dier ID Animal ID SEN F NP 20 09 R Breed Sex HDM Year Seq Regl	11. Hoof ID Metode Main ID Method 1 2 3 4 5 6 7 8 Tail Ear Tag D/tag Col Brnd Phot Elec		Voorvoegsel: Prefix: Tiekels	
12. Naam Name 2009	13. Sub ID Metode Sub ID Method 1 2 3 4 5 6 7 8 Tail Ear Tag D/tag Col Brnd Phot Elec		14. Eienaar Dier nr. Farmers Animal no. NP 2009	
15. Dek Besonderhede Service 1 2 3 Nat AI Implant	16. Geboortedatum Birth Date 16 03 20 20 D D M M C C Y Y		17. Geboortegewig Birth Weight 32	
18. Geboorteweegdatum Birth Weight Date 16 03 20 20 D D M M C C Y Y	19. Betroubaar Reliable X N	20. Geboortegewig Groepkode Birth Weight Group Code 1 2 3 Year Season Group	21. Moeder Gewig Dam Weight 1 2 3 4 5 6 Ca-P Mixed No lick Concern Other lick Pastures	
22. Moeder Weegdatum Dam Weigh Date 1 2 3 4 5 6 D D M M C C Y Y	23. Betroubaar Reliable Y N	24. Geb. Status Birth Status 1 2 3 Single Twin Triplet	25. Geslag van Tweeling Sex of Twin M F Male Female	
26. Moeder Voeding Status Dam Feeding Status 1 2 3 4 5 6 Ca-P Mixed No lick Concern Other lick Pastures	27. Kalf Status Calf Status 1 2 3 4 5 6 Alive Abort <7m Abort >7m Still Born Died Birth Destroyed	28. Kleur Colour 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Typical Red Red/White White/Red Black Yellow Roan White Red/White Under Yellow/White Grey Black/White Whole Broken		

MOEDER BESONDERHEDE DAM DETAILS	39. Rek. nommer Comp. number 0080183775
41. ID nommer ID number SEN F NP 14 0066 R Breed Sex HDM Year Seq Regl	

44. Datum Ontvang Date Received 1 2 3 4 5 6 D D M M C C Y Y
--

VAAR BESONDERHEDE SIRE DETAILS	40. Rek. nommer Comp. number 1 2 3 4 5 6 7 8 9 10 11 12 13 14
42. ID nommer ID number SEN M CN 15 01 R Breed Sex HDM Year Seq Regl	
45. Veelvuldige Vaars Multiple Sires Y	46. Laagste Afdeling Lowest Section 1 2 3 4 5 6 7 8 9 10 11 12 13 14

Vermeulen Forms • ☎ (051) 5221502

Naam van Teler:
Name of Breeder: **NP Muller**

Voltooi deur:
Completed by: **NP Muller**

Ek sertifiseer dat bovermelde teelbesonderhede korrek is:
I certify that the abovementioned breeding particulars are correct.

Handtekening van teler / verteenwoordiger van teler:
Signature of breeder / representative of breeder: **[Signature]**

Datum:
Date: **27/05/2020**



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	NP 2009
Microchip Number	Not Provided
DNA Profile Certificate Number	ZOBOS20-03981-DC

qualifies as the offspring of*

Male

Animal ID/Name	CN150001
Microchip Number	Not Provided
DNA Profile Certificate Number	

&

Female

Animal ID/Name	NP140066
Microchip Number	Not Provided
DNA Profile Certificate Number	C16-06294-DC

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

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

Date



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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	NP 2010
Microchip Number	Not Provided
DNA Profile Certificate Number	ZOBOS20-03982-DC

qualifies as the offspring of

Male

Animal ID/Name	CN150001
Microchip Number	Not Provided
DNA Profile Certificate Number	

&

Female

Animal ID/Name	NP160039
Microchip Number	Not Provided
DNA Profile Certificate Number	C18-13249-DC

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

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

Date



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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1806
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03955

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	Not Detected	
BM2113	127	139
TGLA053	Not Detected	
ETH10	219	221
ILSTS011	Not Detected	
SPS113	149	149
RM067	90	90
TGLA126	111	123
TGLA122	137	151
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	262	270
ETH003	117	127
ETH225	148	150
BM1824	182	182
SPS115	248	252
CSRM060	100	102
MGTG4B	141	143
CSSM066	181	197
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 Mischá Fraser
ZooOmics™ Manager

26 May 2020

Date

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Genomics Manager

26 May 2020

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1807
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03956

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	87	89
BM2113	127	139
TGLA053	Not Detected	
ETH10	209	209
ILSTS011	266	266
SPS113	141	141
RM067	90	94
TGLA126	117	123
TGLA122	143	151
INRA023	198	214

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	117	117
ETH225	148	148
BM1824	180	182
SPS115	248	254
CSRM060	92	100
MGTG4B	137	143
CSSM066	183	189
ILSTS006	Not Detected	

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Ms Mischna Fraser
ZooOmics™ Manager

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

Date



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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1811
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03958

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	97
BM2113	127	127
TGLA053	Not Detected	
ETH10	211	221
ILSTS011	Not Detected	
SPS113	149	151
RM067	90	94
TGLA126	123	125
TGLA122	143	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	117	117
ETH225	148	158
BM1824	182	188
SPS115	248	248
CSRM060	100	100
MGTG4B	141	145
CSSM066	181	197
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 Mischia Fraser
ZooOmics™ Manager

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

Date



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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1808
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03957

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	139	139
TGLA053	Not Detected	
ETH10	209	209
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	94	102
TGLA126	123	123
TGLA122	143	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	262	270
ETH003	117	117
ETH225	144	148
BM1824	180	182
SPS115	252	254
CSRM060	88	100
MGTG4B	137	143
CSSM066	183	183
ILSTS006	Not Detected	

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Ms Mischá Fraser
ZooOmics™ Manager

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1813
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03959

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	97
BM2113	127	137
TGLA053	Not Detected	
ETH10	211	221
ILSTS011	261	268
SPS113	149	153
RM067	90	90
TGLA126	115	125
TGLA122	151	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	117	117
ETH225	150	158
BM1824	180	182
SPS115	248	252
CSRM060	100	100
MGTG4B	137	141
CSSM066	181	181
ILSTS006	298	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.

Ms Mischna Fraser
ZooOmics™ Manager

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1814
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03960

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	139	139
TGLA053	Not Detected	
ETH10	209	221
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	94
TGLA126	119	123
TGLA122	143	151
INRA023	198	214

STR Marker	Allele 1	Allele 2
BM1818	Not Detected	
ETH003	117	119
ETH225	148	150
BM1824	180	182
SPS115	Not Detected	
CSRM060	88	100
MGTG4B	135	137
CSSM066	183	199
ILSTS006	Not Detected	

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Ms Mischá Fraser
ZooOmics™ Manager

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP18015
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03961

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	127	131
TGLA053	Not Detected	
ETH10	209	217
ILSTS011	261	266
SPS113	149	153
RM067	90	94
TGLA126	115	117
TGLA122	151	151
INRA023	196	214

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	117	117
ETH225	148	148
BM1824	180	182
SPS115	248	254
CSRM060	88	110
MGTG4B	137	141
CSSM066	181	183
ILSTS006	294	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.

Ms Mischá Fraser
ZooOmics™ Manager

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1816
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03962

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	97
BM2113	127	139
TGLA053	Not Detected	
ETH10	209	221
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	90
TGLA126	123	123
TGLA122	143	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	270	270
ETH003	117	119
ETH225	148	150
BM1824	182	192
SPS115	248	254
CSRM060	88	98
MGTG4B	135	137
CSSM066	183	183
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 Mischia Fraser
ZooOmics™ Manager

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

Date

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1817
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03963

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	77
BM2113	127	139
TGLA053	Not Detected	
ETH10	209	209
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	92	94
TGLA126	123	123
TGLA122	151	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	117	117
ETH225	148	150
BM1824	180	188
SPS115	248	254
CSRM060	100	100
MGTG4B	135	137
CSSM066	183	197
ILSTS006	298	298

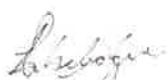
The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Ms Mischa Fraser
ZooOmics™ Manager

26 May 2020

Date



Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1819
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03964

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	91
BM2113	127	133
TGLA053	Not Detected	
ETH10	211	221
ILSTS011	Not Detected	
SPS113	141	141
RM067	90	102
TGLA126	117	123
TGLA122	151	151
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	270	270
ETH003	117	119
ETH225	150	150
BM1824	180	182
SPS115	248	254
CSRM060	88	100
MGTG4B	135	137
CSSM066	183	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 Mischä Fraser
ZooOmics™ Manager

26 May 2020

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1820
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03965

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	127	133
TGLA053	Not Detected	
ETH10	209	217
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	92	94
TGLA126	123	123
TGLA122	143	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	270	270
ETH003	117	117
ETH225	148	150
BM1824	180	182
SPS115	252	252
CSRM060	88	100
MGTG4B	137	137
CSSM066	183	185
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 Mischra Fraser
ZooOmics™ Manager

26 May 2020

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Genomics Manager

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1824
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03966

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	127	129
TGLA053	Not Detected	
ETH10	209	209
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	90
TGLA126	123	123
TGLA122	143	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	Not Detected	
ETH003	117	119
ETH225	148	158
BM1824	182	182
SPS115	248	252
CSRM060	100	100
MGTG4B	141	143
CSSM066	181	183
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 Mischä Fraser
ZooOmics™ Manager

26 May 2020

Date

Dr Christiaan Labuschagne
Genomics Manager

26 May 2020

Date



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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1825
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03967

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	91	97
BM2113	Not Detected	
TGLA053	Not Detected	
ETH10	217	221
ILSTS011	Not Detected	
SPS113	137	153
RM067	90	94
TGLA126	123	125
TGLA122	151	151
INRA023	196	214

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	119	127
ETH225	148	158
BM1824	180	182
SPS115	248	256
CSRM060	100	104
MGTG4B	135	141
CSSM066	183	185
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.

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26 May 2020

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1829
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03968

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	89	89
BM2113	127	139
TGLA053	Not Detected	
ETH10	209	209
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	102
TGLA126	123	125
TGLA122	143	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	264	270
ETH003	119	127
ETH225	144	158
BM1824	182	182
SPS115	248	252
CSRM060	98	100
MG TG4B	135	143
CSSM066	183	183
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.

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26 May 2020

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1830
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03969

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	91	97
BM2113	127	139
TGLA053	Not Detected	
ETH10	209	221
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	94
TGLA126	123	123
TGLA122	151	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	Not Detected	
ETH003	117	127
ETH225	158	158
BM1824	182	182
SPS115	248	248
CSRM060	100	100
MGTG4B	141	143
CSSM066	183	183
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.

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26 May 2020
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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1835
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03970

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	91	97
BM2113	127	139
TGLA053	Not Detected	
ETH10	209	217
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	90
TGLA126	123	125
TGLA122	151	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	270	270
ETH003	117	125
ETH225	148	148
BM1824	182	182
SPS115	248	248
CSRM060	100	102
MGTG4B	135	143
CSSM066	181	195
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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1836
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03971

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	125	127
TGLA053	Not Detected	
ETH10	221	221
ILSTS011	Not Detected	
SPS113	137	137
RM067	90	94
TGLA126	121	125
TGLA122	143	151
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	264	270
ETH003	117	127
ETH225	148	148
BM1824	182	192
SPS115	250	250
CSRM060	100	100
MGTG4B	143	145
CSSM066	181	187
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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1839
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03972

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	79	79
BM2113	127	139
TGLA053	Not Detected	
ETH10	209	217
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	94
TGLA126	121	123
TGLA122	141	151
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	264	270
ETH003	119	127
ETH225	150	158
BM1824	182	182
SPS115	252	252
CSRM060	100	100
MGTG4B	143	145
CSSM066	183	183
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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1841
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03973

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	Not Detected	
BM2113	127	127
TGLA053	Not Detected	
ETH10	211	221
ILSTS011	261	266
SPS113	137	149
RM067	90	94
TGLA126	123	123
TGLA122	144	151
INRA023	198	214

STR Marker	Allele 1	Allele 2
BM1818	270	270
ETH003	117	117
ETH225	149	149
BM1824	182	182
SPS115	248	248
CSRM060	100	110
MGTG4B	135	143
CSSM066	181	183
ILSTS006	296	296

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 PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1844
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03974

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	121	127
TGLA053	Not Detected	
ETH10	209	217
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	90
TGLA126	119	123
TGLA122	151	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	262	262
ETH003	117	127
ETH225	148	158
BM1824	180	182
SPS115	248	252
CSRM060	100	100
MGTG4B	135	141
CSSM066	181	183
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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1846
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03975

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	127	127
TGLA053	Not Detected	
ETH10	221	221
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	90
TGLA126	123	125
TGLA122	Not Detected	
INRA023	196	214

STR Marker	Allele 1	Allele 2
BM1818	Not Detected	
ETH003	117	117
ETH225	148	158
BM1824	182	182
SPS115	248	260
CSRM060	98	100
MGTG4B	141	145
CSSM066	183	197
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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1848
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03976

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	77
BM2113	127	139
TGLA053	Not Detected	
ETH10	209	217
ILSTS011	Not Detected	
SPS113	149	151
RM067	90	90
TGLA126	123	125
TGLA122	151	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	262	270
ETH003	119	127
ETH225	148	158
BM1824	180	182
SPS115	248	248
CSRM060	96	100
MGTG4B	135	141
CSSM066	181	183
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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1851
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03977

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	Not Detected	
BM2113	127	127
TGLA053	Not Detected	
ETH10	209	209
ILSTS011	Not Detected	
SPS113	Not Detected	
RM067	90	90
TGLA126	123	123
TGLA122	143	151
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	Not Detected	
ETH003	117	127
ETH225	158	158
BM1824	180	182
SPS115	Not Detected	
CSRM060	96	100
MGTG4B	141	143
CSSM066	181	183
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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1861
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03978

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	83	97
BM2113	127	139
TGLA053	Not Detected	
ETH10	209	209
ILSTS011	Not Detected	
SPS113	149	153
RM067	90	94
TGLA126	123	123
TGLA122	141	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	264	270
ETH003	117	117
ETH225	148	158
BM1824	180	182
SPS115	248	248
CSRM060	88	100
MGTG4B	135	141
CSSM066	183	197
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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 1903
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03979

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	77
BM2113	127	127
TGLA053	Not Detected	
ETH10	209	211
ILSTS011	Not Detected	
SPS113	141	141
RM067	98	102
TGLA126	119	123
TGLA122	143	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	262	266
ETH003	117	117
ETH225	148	158
BM1824	182	182
SPS115	248	260
CSRM060	100	110
MG TG4B	137	141
CSSM066	181	197
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.

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 2008
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03980

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	121	139
TGLA053	Not Detected	
ETH10	211	221
ILSTS011	268	268
SPS113	141	141
RM067	92	94
TGLA126	119	123
TGLA122	143	143
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	262	262
ETH003	117	117
ETH225	148	150
BM1824	180	182
SPS115	248	254
CSRM060	100	100
MGTG4B	135	143
CSSM066	181	197
ILSTS006	294	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 PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	NP 2009
MICROCHIP NUMBER	Not Provided
SPECIES	CATTLE
GENDER	Female
OWNER	NOOITGEDACHT SENEPOL STOET
LAB. NO	ZOBOS20-03981

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	79	87
BM2113	125	125
TGLA053	Not Detected	
ETH10	209	217
ILSTS011	Not Detected	
SPS113	141	149
RM067	90	94
TGLA126	125	125
TGLA122	143	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	262	270
ETH003	117	117
ETH225	148	148
BM1824	178	188
SPS115	248	252
CSRM060	100	100
MGTG4B	143	145
CSSM066	195	197
ILSTS006	296	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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