



ZooOmics™ is a division of Inqaba Biotechnical Industries Pty Ltd
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CATTLE MUTATION ANALYSIS REPORT

Owner/Sender Information

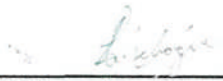
Name:	AB Butler
Tel. No.:	(82) 339-4502
E-mail:	

Print Date:	2021/07/06
Date received:	2021/06/19
No. samples:	8

Description of Procedure

Molecular screening of the SLICK (prolactin receptor) disruptive mutation. The presence of the disruptive mutation due to a deletion event will be indicated as SLICK/SLICK for homozygous affected animals, WT/WT for homozygous unaffected animals and WT/SLICK for heterozygous carrier animals.

Lab No.	Sample ID	Result	Lab No.	Sample ID	Result
ZOCA2021-18261	AB200188		ZOCA2021-18266	AB180186	WT/MUT
ZOCA2021-18262	AB180045	MUT/MUT	ZOCA2021-18267	AB180188	MUT/MUT
ZOCA2021-18263	AB180146	MUT/MUT	ZOCA2021-18268	AB180198	WT/WT
ZOCA2021-18264	AB180148	WT/MUT	ZOCA2021-18269	AB150150	MUT/MUT
ZOCA2021-18265	AB180170	WT/MUT			


Dr Christiaan Labuschagne
Genomics Manager

2021/07/06
Date

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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;

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The DNA profile is based on a preliminary marker panel that is subject to modification pending additional genetic information;

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 any delays.

Date Printed: 2021/07/06



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CATTLE MUTATION ANALYSIS REPORT

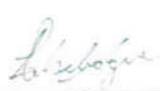
Order Information

Name:	AB Butler	Print Date:	2021/06/24
Telephone No.:	(82) 339-4502	Date received:	2021/06/19
E-mail address:	calcrete@wam.co.za	No. samples:	8

Description of Procedure

Molecular genotyping for Double Muscling (Myostatin: F94L, Q204X and N1821). 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)					
		F94L		Q204X		N1821	
ZOCA2021/18262	AB180045	WT	WT	WT	WT	WT	WT
ZOCA2021/18263	AB180146	WT	WT	WT	WT	WT	WT
ZOCA2021/18264	AB180148	WT	WT	WT	WT	WT	MUT
ZOCA2021/18265	AB180170	WT	WT	WT	WT	WT	MUT
ZOCA2021/18266	AB180186	WT	WT	WT	WT	WT	MUT
ZOCA2021/18267	AB180188	WT	WT	WT	WT	WT	MUT
ZOCA2021/18268	AB180198	WT	WT	WT	WT	WT	MUT
ZOCA2021/18269	AB150150	WT	WT	WT	WT	WT	MUT


Dr Christiaan Labuschagne
Genomics Manager

2021/06/24
Date

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Lot nr	Dier/Animal	Inenting/Vaccination
1. Chris	CN 190001	
2. Basil	AB150150	Coverexin, Multiclos, Batuwax
3. Tiekie	NP180019	RB 51, Supavax, Slenkdal, Knopvel
4. Kevin	CIS160036	
5. Basil	AB130103	Coverexin, Multiclos, Batuwax
6. Tiekie	NP 180046	RB 51, Supavax, Slenkdal, Knopvel
7. Bertie	GN150236	
8. Basil	AB170021	Coverexin, Multiclos, Batuwax
9. Thomas	WIO160045	
10. Tiekie	NP 180014	RB 51, Supavax, Slenkdal, Knopvel
11. Theuns	VL 170028	
12. Kevin	CIS170044	
13. Kevin	CIS180086	
14. Tiekie	NP 180008	RB 51, Supavax, Slenkdal, Knopvel
15. Basil	AB180045	Coverexin Multiclos, Batuwax
16. Basil	AB180146	" " "
17. Kevin	CIS 120023	
18. Thomas	5 Komm Koeie	
19. Bertie	EK 180021	
20. Tiekie	NP 180058	RB 51, Supavax, Slenkdal, Knopvel
21. Kevin	CIS 120028	
22. Tiekie	NP 190003	RB 51, Supavax, Slenkdal, Knopvel
23. Kevin	CIS 140012	
24. Theuns	VL 180024	
25. Kevin	CIS 140013	
26. Tiekie	NP 160029	RB 51, Supavax, Slenkdal, Knopvel
27. Basil	AB180148	Coverexin, Multiclos, Batuwax
28. Theuns	VL 180042	
29. Kevin	CIS 150043	
30. Kevin	CIS 170032	
31. Thomas	RO 170056	
32. Tiekie	NP 180041	RB 51, Supavax, Slenkdal, Knopvel
33. Kevin	CIS 180010	
34. Thomas	GN160475	
35. Basil	AB180170	Coverexin, Multiclos, Batuwax
36. Kevin	CIS 180021	
37. Kevin	CIS 180059	Coverexin Multiclos, Batuwax
38. Basil	AB180186	" " "
39. Tiekie	NP 180036	RB 51, Supavax, Slenkdal, Knopvel
40. Kevin	CIS 180081	
41. Basil	AB180188	Coverexin, Multiclos, Batuwax
42. Basil	AB180198	" " "
43. Kevin	CIS 180118	
44. Basil	AB160011	Coverexin, Multiclos, Batuwax
45. Thomas	5 Komm Koeie	
46. Kevin	CIS 190001	
47. Basil	AB130120	Coverexin, Multiclos, Batuwax
48. Kevin	CIS 190002	
49. Theuns	VL 180048	

lumpy skin. / Proven Sire
+ Myostatin
+ slick hair. good depth & length.
lumpy skin. Calf date 29.06.21 B
AB 21-046 SIRE CN17-14. Best of Calf
Calf
lumpy skin. + Myostatin
+ slick hair.
Used = stud. Breeds true to type

lumpy skin. - Myostatin
+ slick hair.
- Myostatin
+ slick hair.

lumpy skin. / Bull with exceptional
length & breadth.
+ Myostatin
+ slick hair

lumpy skin. + Myostatin
+ slick hair

lumpy skin. + Myostatin
+ slick hair.

lumpy skin / not recommended for heifers
+ Myostatin
+ slick hair
+ Myostatin
+ slick hair

lumpy skin. Calf date. 02.01.21 B
AB20-158 SIRE AB17-21.
4mb CIC mated to AI 25.02.21 PRIMERD
out pick up bull CN17-14
lumpy skin. Calf date 26.06.21 B
AB 21-36 SIRE CN17-14

50. Kevin	CIS 190212	
51. Thomas	5 Komm Verse	
52. Theuns	VL 180049	
53. Basil	AB130166	Coveexin, Multidos, Bathuvax
54. Thomas	5 Komm Speenverse	
55. Chris	CN 190008	
56. Basil	AB130138	Coveexin, Multidos, Bathuvax
57. Kevin	CIS 160042	

lumpy skin 6 in calf to CN17.14.

lumpy skin 5 in calf to CN17.14.

Summary

Lot 2. AB 15.150 CMBL

Lot 5 AB 13.103 CMBL

Lot 8 AB 17.21 CMBL

Lot 15 AB 18.45 CMBL

Lot 16 AB 18.146 CMBL

Lot 27 AB 18.148 CMBL

Lot 35 AB 18.170 CMBL

Lot 38 AB 18.186 CMBL

Lot 41 AB 18.188 CMBL

Lot 42 AB 18.198 CMBL

Lot 44 AB 16.11 CMBL

Lot 47. AB 13.20 CMBL

Lot 53 AB 13.166 CMBL

Lot 56 AB 13.138 CMBL

Remarks

Proven Sire good depth & length.
+ Myostatin + slick hair

With calf Born 29.06.21 M AB 21.46
SIRE CN 17.14 Best of Calcutta Stud

Used in Stud. Breeds "true to type"
+ Myostatin + slick hair.

- Myostatin + slick hair.

- Myostatin + slick hair.

Bull has exceptional length and
breadth. + Myostatin + slick hair.

+ Myostatin + slick hair.

+ Myostatin + slick hair

not recommended for heifers.
+ Myostatin + slick hair.

+ myostatin + slick hair.

3-1.

with calf Born 02.01.21 M SIRE AB 17.21
in calf (4 mts) AI 25.02.21 PRIMERO
out with "pick up" bull CN. 17.14.

with calf Born 26.06.21 M
AB 21-36 SIRE CN 17.14.

in calf + 6 mts to CN 17.14.

in calf + 6 mts to CN 17.14.

C ~~Coveexin~~ Coveexin

M — Multidos

B — Bathuvax

L — lumpy skin disease.

Dunkie. Check assemblage myostatin + slick hair. of ek
Ind!!!