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PO Box 14356, Hatfield, Pretoria 0028

CATTLE MUTATION ANALYSIS REPORT

Order Information

Name:	Leeuwbult Bonsmarastoet	Print Date:	2026/08/26
Telephone No.:	0836278397	Date received:	2026/07/31
E-mail address:	izak@eleo.co.za	No. samples:	74

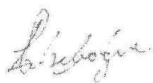
Description of Procedure

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.

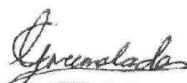
Lab No.	Sample ID	Double Muscling (Myostatin)					
		Q204X		Nt821		F94L	
ZOCA2026-117409	IC250787	WT	WT	WT	WT	WT	WT
ZOCA2026-117410	IC250792	WT	WT	WT	WT	WT	WT
ZOCA2026-117411	IC250797	WT	WT	WT	WT	WT	WT
ZOCA2026-117412	IC250799	WT	WT	WT	WT	WT	WT
ZOCA2026-117413	IC250880	WT	WT	WT	WT	WT	WT
ZOCA2026-117414	IC250801	WT	MUT	WT	WT	WT	WT
ZOCA2026-117415	IC250802	WT	WT	WT	WT	WT	WT
ZOCA2026-117417	IC250807	WT	WT	WT	WT	WT	WT
ZOCA2026-117418	IC250811	WT	WT	WT	WT	WT	WT
ZOCA2026-117419	IC250813	WT	WT	WT	WT	WT	WT
ZOCA2026-117420	IC250815	WT	WT	WT	WT	WT	WT
ZOCA2026-117421	IC250817	WT	WT	WT	WT	WT	WT
ZOCA2026-117422	IC250819	WT	WT	WT	WT	WT	WT
ZOCA2026-117423	IC250821	WT	WT	WT	WT	WT	WT
ZOCA2026-117424	IC250825	WT	WT	WT	WT	WT	WT
ZOCA2026-117425	IC250827	WT	WT	WT	WT	WT	WT
ZOCA2026-117426	IC250831	WT	WT	WT	WT	WT	WT
ZOCA2026-117427	IC250839	WT	MUT	WT	WT	WT	WT
ZOCA2026-117428	IC250841	WT	WT	WT	WT	WT	WT
ZOCA2026-117429	IC250843	WT	WT	WT	WT	WT	WT
ZOCA2026-117430	IC250845	WT	WT	WT	WT	WT	WT
ZOCA2026-117431	IC250849	WT	WT	WT	WT	WT	WT
ZOCA2026-117432	IC250851	WT	WT	WT	WT	WT	WT

Lab No.	Sample ID	Double Muscling (Myostatin)					
		Q204X		N1821		F94L	
ZOCA2026-117433	IC250853	WT	WT	WT	WT	WT	WT
ZOCA2026-117434	IC250857	WT	WT	WT	WT	WT	WT
ZOCA2026-117435	IC250858	WT	WT	WT	WT	WT	WT
ZOCA2026-117436	IC250861	WT	MUT	WT	WT	WT	WT
ZOCA2026-117437	IC250862	WT	WT	WT	WT	WT	WT
ZOCA2026-117438	IC250864	WT	WT	WT	WT	WT	WT
ZOCA2026-117439	IC250866	WT	MUT	WT	WT	WT	WT
ZOCA2026-117440	IC250874	WT	WT	WT	WT	WT	WT
ZOCA2026-117441	IC250876	WT	WT	WT	WT	WT	WT
ZOCA2026-117442	IC250890	WT	WT	WT	WT	WT	WT
ZOCA2026-117443	IC250892	WT	WT	WT	WT	WT	WT
ZOCA2026-117444	IC250896	WT	WT	WT	WT	WT	WT
ZOCA2026-117445	IC250898	WT	WT	WT	WT	WT	WT
ZOCA2026-117446	IC250902	WT	WT	WT	WT	WT	WT
ZOCA2026-117447	IC250906	WT	WT	WT	WT	WT	WT
ZOCA2026-117448	IC250908	WT	WT	WT	WT	WT	WT
ZOCA2026-117449	IC250910	WT	MUT	WT	WT	WT	WT
ZOCA2026-117450	IC250912	WT	WT	WT	WT	WT	WT
ZOCA2026-117451	IC250918	WT	WT	WT	WT	WT	WT
ZOCA2026-117452	IC250924	WT	WT	WT	WT	WT	WT
ZOCA2026-117453	IC250926	WT	WT	WT	WT	WT	WT
ZOCA2026-117454	IC250932	WT	WT	WT	WT	WT	WT
ZOCA2026-117455	IC250936	WT	WT	WT	WT	WT	WT
ZOCA2026-117456	IC250938	WT	WT	WT	WT	WT	WT
ZOCA2026-117457	IC250940	WT	WT	WT	WT	WT	WT
ZOCA2026-117458	IC260869	WT	WT	WT	WT	WT	WT
ZOCA2026-117459	IC260873	WT	WT	WT	WT	WT	WT
ZOCA2026-117460	IC260879	WT	WT	WT	WT	WT	WT
ZOCA2026-117461	IC260881	WT	WT	WT	WT	WT	WT
ZOCA2026-117462	IC260883	WT	WT	WT	WT	WT	WT
ZOCA2026-117463	IC260889	WT	WT	WT	WT	WT	WT
ZOCA2026-117464	IC260891	WT	WT	WT	WT	WT	WT
ZOCA2026-117465	IC260895	WT	WT	WT	WT	WT	WT
ZOCA2026-117466	IC260897	WT	WT	WT	WT	WT	WT
ZOCA2026-117467	IC260899	WT	WT	WT	WT	WT	WT
ZOCA2026-117468	IC260901	WT	WT	WT	WT	WT	WT
ZOCA2026-117469	IC260903	WT	WT	WT	WT	WT	WT
ZOCA2026-117470	IC260905	WT	WT	WT	WT	WT	WT
ZOCA2026-117471	IC260944	WT	WT	WT	WT	WT	WT
ZOCA2026-117472	IC260948	WT	WT	WT	WT	WT	WT

Lab No.	Sample ID	Double Muscling (Myostatin)					
		Q204X		N1821		F94L	
ZOCA2026-117473	IC260950	WT	WT	WT	WT	WT	WT
ZOCA2026-117474	IC260954	WT	WT	WT	WT	WT	WT
ZOCA2026-117475	IC260960	WT	WT	WT	WT	WT	WT
ZOCA2026-117476	IC260962	WT	WT	WT	WT	WT	WT
ZOCA2026-117477	IC260964	WT	WT	WT	WT	WT	WT
ZOCA2026-117478	IC260968	WT	WT	WT	WT	WT	WT
ZOCA2026-117479	IC260972	WT	WT	WT	WT	WT	WT
ZOCA2026-117480	IC260974	WT	WT	WT	WT	WT	WT
ZOCA2026-117481	IC260976	WT	WT	WT	WT	WT	WT
ZOCA2026-117482	IC260982	WT	WT	WT	WT	WT	WT



Dr Christiaan Labuschagne
Genomics Manager



Catherine Greenslade
Analyst

2026/08/26

Date

****Disclaimer**

Whatever is contained in this report is subject to the following:

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;



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Owner/Sender Information

Name:	Leeuwbult Bonsmarastoet
Telephone No.:	(83) 627-8397
E-mail:	izak@eleo.co.za

Print Date:	2026/08/26
Date received:	2026/07/31
No. samples:	120

Description of Procedure

Molecular screening of the polled (Celtic) in the BTA1 gene. The presence of the indel mutation will be indicated as MUT/MUT for homozygous polled animals, WT/WT for homozygous unaffected horned animals and WT/MUT for heterozygous polled animals.

Lab No.	Sample ID	Result	Lab No.	Sample ID	Result
ZOCA2024-65413	IC230491	WT/WT	ZOCA2025-92017	IC240241	WT/WT
ZOCA2024-74322	IC240817	WT/WT	ZOCA2025-92019	IC240243	WT/WT
ZOCA2024-74324	IC240827	WT/WT	ZOCA2025-92023	IC240253	WT/WT
ZOCA2024-74326	IC240831	WT/WT	ZOCA2025-101975	IC250367	WT/WT
ZOCA2024-74328	IC240835	WT/WT	ZOCA2025-101977	IC250383	WT/WT
ZOCA2025-82973	IC240845	WT/WT	ZOCA2025-101985	IC250407	WT/WT
ZOCA2025-82974	IC240847	WT/WT	ZOCA2025-101987	IC250411	WT/WT
ZOCA2025-82975	IC240849	WT/WT	ZOCA2025-101993	IC250421	WT/WT
ZOCA2025-82979	IC240859	WT/WT	ZOCA2025-102000	IC250439	WT/WT
ZOCA2025-82977	IC240863	WT/WT	ZOCA2026-105934	IC250373	WT/WT
ZOCA2025-82978	IC240867	WT/WT	ZOCA2026-105935	IC250381	WT/WT
ZOCA2025-82980	IC240873	WT/WT	ZOCA2026-105938	IC250445	WT/WT
ZOCA2025-82987	IC240891	WT/WT	ZOCA2026-105939	IC250449	WT/WT
ZOCA2025-82992	IC240913	WT/WT	ZOCA2026-105941	IC250453	WT/WT
ZOCA2025-82994	IC240917	WT/WT	ZOCA2026-105942	IC250455	WT/MUT
ZOCA2025-82997	IC240923	WT/WT	ZOCA2026-105944	IC250461	WT/WT
ZOCA2025-82998	IC240925	WT/WT	ZOCA2026-105946	IC250465	WT/WT
ZOCA2025-83000	IC240929	WT/WT	ZOCA2026-105954	IC250477	WT/WT
ZOCA2025-83001	IC240933	WT/WT	ZOCA2026-105956	IC250481	WT/WT
ZOCA2025-83004	IC240943	WT/WT	ZOCA2026-105961	IC250489	WT/WT
ZOCA2025-83005	IC240945	WT/WT	ZOCA2026-105968	IC250501	WT/WT
ZOCA2025-83007	IC240953	WT/WT	ZOCA2026-105972	IC250511	WT/WT
ZOCA2025-83009	IC240963	WT/WT	ZOCA2026-105981	IC250547	WT/MUT
ZOCA2025-83011	IC240973	WT/WT	ZOCA2026-106694	IC250485	WT/WT
ZOCA2025-83012	IC240983	WT/WT	ZOCA2026-106695	IC250503	WT/WT
ZOCA2025-84784	IC240009	WT/WT	ZOCA2026-106698	IC250515	WT/WT
ZOCA2025-84790	IC240021	WT/WT	ZOCA2026-106699	IC250525	WT/WT
ZOCA2025-84801	IC240033	WT/WT	ZOCA2026-106700	IC250527	WT/WT
ZOCA2025-84814	IC240995	WT/WT	ZOCA2026-106701	IC250529	WT/WT

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ZOCA2025-90548	IC240037	WT/WT
ZOCA2025-90550	IC240053	WT/WT
ZOCA2025-90551	IC240055	WT/WT
ZOCA2025-90552	IC240057	WT/WT
ZOCA2025-90557	IC240067	WT/WT
ZOCA2025-90564	IC240081	WT/WT
ZOCA2025-90566	IC240085	WT/WT
ZOCA2025-90568	IC240089	WT/WT
ZOCA2025-90569	IC240091	WT/WT
ZOCA2025-90573	IC240095	WT/WT
ZOCA2025-90575	IC240103	WT/WT
ZOCA2025-90576	IC240105	WT/WT
ZOCA2025-90578	IC240107	WT/WT
ZOCA2025-90584	IC240115	WT/WT
ZOCA2025-90587	IC240119	WT/WT
ZOCA2025-90589	IC240121	WT/WT
ZOCA2025-90591	IC240125	WT/WT
ZOCA2025-90603	IC240153	WT/WT
ZOCA2025-91956	IC240139	WT/WT
ZOCA2025-91957	IC240143	WT/WT
ZOCA2025-91958	IC240145	WT/WT
ZOCA2025-91960	IC240157	WT/WT
ZOCA2025-91962	IC240161	WT/WT
ZOCA2025-91968	IC240171	WT/WT
ZOCA2025-91975	IC240181	WT/WT
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ZOCA2025-91983	IC240191	WT/WT
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ZOCA2025-91996	IC240207	WT/WT
ZOCA2025-92006	IC240219	WT/WT

ZOCA2026-106702	IC250533	WT/WT
ZOCA2026-106704	IC250537	WT/WT
ZOCA2026-106705	IC250539	WT/WT
ZOCA2026-106711	IC250551	WT/WT
ZOCA2026-106712	IC250553	WT/WT
ZOCA2026-106713	IC250555	WT/WT
ZOCA2026-106714	IC250557	WT/WT
ZOCA2026-106723	IC250567	WT/WT
ZOCA2026-106725	IC250569	WT/MUT
ZOCA2026-106732	IC250585	WT/WT
ZOCA2026-106736	IC250595	WT/WT
ZOCA2026-117483	IC240175	WT/WT
ZOCA2026-117484	IC240231	WT/WT
ZOCA2026-117485	IC240233	WT/WT
ZOCA2026-117486	IC240237	WT/WT
ZOCA2026-117487	IC240247	WT/WT
ZOCA2026-117488	IC240249	WT/WT
ZOCA2026-117489	IC240269	WT/WT
ZOCA2026-117490	IC240271	WT/WT
ZOCA2026-117491	IC240275	WT/WT
ZOCA2026-117492	IC240277	WT/WT
ZOCA2026-117493	IC240279	WT/WT
ZOCA2026-117494	IC240285	WT/WT
ZOCA2026-117495	IC240297	WT/WT
ZOCA2026-117496	IC240303	WT/WT
ZOCA2026-117497	IC240311	WT/WT
ZOCA2026-117498	IC240313	WT/WT
ZOCA2026-117499	IC250335	WT/WT
ZOCA2026-117500	IC250339	WT/WT
ZOCA2026-117501	IC250471	WT/WT
ZOCA2026-117502	IC250505	WT/WT

Dr Christiaan Labuschagne
Genomics Manager

Nkafeko Mkase
Analyst

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