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525 Justice Mahomed Str, Muckleneuk, Pretoria 0002
PO Box 14356, Hatfield, Pretoria 0028

CATTLE MUTATION ANALYSIS REPORT

Order Information

Name:	Ian McLachlan (Westwind Estates (Pty) Ltd)	Print Date:	2026/06/03
Telephone No.:	051 713 0518; 082 895 8189	Date received:	2026/05/28
E-mail address:	ian@hillsidefarm.co.za	No. samples:	7

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	
ZOCA2026-112618	DW251910	WT	WT	WT	WT	WT	WT
ZOCA2026-112619	DW251907	WT	WT	WT	WT	WT	WT
ZOCA2026-112620	DW251900	WT	WT	WT	WT	WT	WT
ZOCA2026-112621	DW251897	WT	WT	WT	WT	WT	WT
ZOCA2026-112622	DW251896	WT	WT	WT	WT	WT	WT
ZOCA2026-112623	DW251895	WT	WT	WT	WT	WT	WT
ZOCA2026-112624	DW251795	WT	WT	WT	WT	WT	WT

Dr Christiaan Labuschagne
Genomics Manager

Rieze Straeuli
Analyst

2026/06/03

Date

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CATTLE MUTATION ANALYSIS REPORT

Order Information

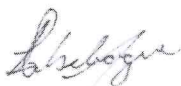
Name:	Ian McLachlan (Westwind Estates (Pty) Ltd)	Print Date:	2026/05/12
Telephone No.:	051 713 0518; 082 895 8189	Date received:	2026/05/04
E-mail address:	ian@hillsidefarm.co.za	No. samples:	53

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	
ZOCA2026-110819	DW251778	WT	WT	WT	WT	WT	WT
ZOCA2026-110820	DW251779	WT	WT	WT	WT	WT	WT
ZOCA2026-110821	DW251788	WT	WT	WT	WT	WT	WT
ZOCA2026-110822	DW251789	WT	WT	WT	WT	WT	WT
ZOCA2026-110823	DW251790	WT	WT	WT	WT	WT	WT
ZOCA2026-110824	DW251796	WT	WT	WT	WT	WT	WT
ZOCA2026-110825	DW251805	WT	WT	WT	WT	WT	WT
ZOCA2026-110826	DW251806	WT	WT	WT	WT	WT	WT
ZOCA2026-110827	DW251808	WT	WT	WT	WT	WT	WT
ZOCA2026-110828	DW251809	WT	WT	WT	WT	WT	WT
ZOCA2026-110829	DW251814	WT	WT	WT	WT	WT	WT
ZOCA2026-110830	DW251815	WT	WT	WT	WT	WT	WT
ZOCA2026-110831	DW251816	WT	WT	WT	WT	WT	WT
ZOCA2026-110832	DW251819	WT	WT	WT	WT	WT	WT
ZOCA2026-110833	DW251827	WT	WT	WT	WT	WT	WT
ZOCA2026-110834	DW251828	WT	WT	WT	WT	WT	WT
ZOCA2026-110835	DW251829	WT	WT	WT	WT	WT	WT
ZOCA2026-110836	DW251830	WT	WT	WT	WT	WT	WT
ZOCA2026-110837	DW251832	WT	WT	WT	WT	WT	WT
ZOCA2026-110838	DW251835	WT	WT	WT	WT	WT	WT
ZOCA2026-110839	DW251839	WT	WT	WT	WT	WT	WT
ZOCA2026-110840	DW251846	WT	WT	WT	WT	WT	WT
ZOCA2026-110841	DW251847	WT	WT	WT	WT	WT	WT
ZOCA2026-110842	DW251849	WT	WT	WT	WT	WT	WT
ZOCA2026-110843	DW251851	WT	WT	WT	WT	WT	WT
ZOCA2026-110844	DW251856	WT	WT	WT	WT	WT	WT
ZOCA2026-110845	DW251857	WT	WT	WT	WT	WT	WT

ZOCA2026-110846	DW251858	WT	WT	WT	WT	WT	WT
ZOCA2026-110847	DW251859	WT	WT	WT	WT	WT	WT
ZOCA2026-110848	DW251862	WT	WT	WT	WT	WT	WT
ZOCA2026-110849	DW251863	WT	WT	WT	WT	WT	WT
ZOCA2026-110850	DW251866	WT	WT	WT	WT	WT	WT
ZOCA2026-110851	DW251868	WT	WT	WT	WT	WT	WT
ZOCA2026-110852	DW251871	WT	WT	WT	WT	WT	WT
ZOCA2026-110853	DW251874	WT	WT	WT	WT	WT	WT
ZOCA2026-110854	DW251876	WT	WT	WT	WT	WT	WT
ZOCA2026-110855	DW251878	WT	WT	WT	WT	WT	WT
ZOCA2026-110856	DW251879	WT	WT	WT	WT	WT	WT
ZOCA2026-110857	DW251880	WT	WT	WT	WT	WT	WT
ZOCA2026-110858	DW251882	WT	WT	WT	WT	WT	WT
ZOCA2026-110859	DW251883	WT	WT	WT	WT	WT	WT
ZOCA2026-110860	DW251884	WT	WT	WT	WT	WT	WT
ZOCA2026-110861	DW251885	WT	WT	WT	WT	WT	WT
ZOCA2026-110862	DW251887	WT	WT	WT	WT	WT	WT
ZOCA2026-110863	DW251889	WT	WT	WT	WT	WT	WT
ZOCA2026-110864	DW251891	WT	WT	WT	WT	WT	WT
ZOCA2026-110865	DW251893	WT	WT	WT	WT	WT	WT
ZOCA2026-110866	DW251914	WT	WT	WT	WT	WT	WT
ZOCA2026-110867	DW251915	WT	WT	WT	WT	WT	WT
ZOCA2026-110868	DW251917	WT	WT	WT	WT	WT	WT
ZOCA2026-110869	DW251918	WT	WT	WT	WT	WT	WT
ZOCA2026-110870	DW251919	WT	WT	WT	WT	WT	WT
ZOCA2026-110871	DW251921	WT	WT	WT	WT	WT	WT



Dr Christiaan Labuschagne
Genomics Manager



Seyuri Rajaruthnam
Analyst

2026/05/12

Date

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CATTLE MUTATION ANALYSIS REPORT

Order Information

Name:	Irwin Dr D & Mrs	Print Date:	2025/11/05
Telephone No.:	051 713 0518; 082 895 8189	Date received:	2025/10/30
E-mail address:	ian@hillsidefarm.co.za	No. samples:	35

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	
ZOCA2025-101253	DW231390	WT	WT	WT	WT	WT	WT
ZOCA2025-101254	DW231391	WT	WT	WT	WT	WT	WT
ZOCA2025-101255	DW231392	WT	WT	WT	WT	WT	WT
ZOCA2025-101256	DW231393	WT	WT	WT	WT	WT	WT
ZOCA2025-101257	DW231394	WT	WT	WT	WT	WT	WT
ZOCA2025-101258	DW231398	WT	WT	WT	WT	WT	WT
ZOCA2025-101259	DW231399	WT	WT	WT	WT	WT	WT
ZOCA2025-101260	DW231400	WT	WT	WT	WT	WT	WT
ZOCA2025-101261	DW231403	WT	WT	WT	WT	WT	WT
ZOCA2025-101262	DW231405	WT	WT	WT	WT	WT	WT
ZOCA2025-101263	DW231407	WT	WT	WT	WT	WT	WT
ZOCA2025-101264	DW231408	WT	WT	WT	WT	WT	WT
ZOCA2025-101265	DW231410	WT	WT	WT	WT	WT	WT
ZOCA2025-101266	DW231411	WT	WT	WT	WT	WT	WT
ZOCA2025-101267	DW231413	WT	WT	WT	WT	WT	WT
ZOCA2025-101268	DW231414	WT	WT	WT	WT	WT	WT
ZOCA2025-101269	DW231416	WT	WT	WT	WT	WT	WT
ZOCA2025-101270	DW231417	WT	WT	WT	WT	WT	WT
ZOCA2025-101271	DW231419	WT	WT	WT	WT	WT	WT
ZOCA2025-101272	DW231424	WT	WT	WT	WT	WT	WT
ZOCA2025-101273	DW231425	WT	WT	WT	WT	WT	WT
ZOCA2025-101274	DW231427	WT	WT	WT	WT	WT	WT
ZOCA2025-101275	DW231431	WT	WT	WT	WT	WT	WT
ZOCA2025-101276	DW231432	WT	WT	WT	WT	WT	WT
ZOCA2025-101277	DW231435	WT	WT	WT	WT	WT	WT
ZOCA2025-101278	DW231437	WT	WT	WT	WT	WT	WT
ZOCA2025-101279	DW231438	WT	WT	WT	WT	WT	WT

ZOCA2025-101280	DW231439	WT	WT	WT	WT	WT	WT
ZOCA2025-101281	DW231441	WT	WT	WT	WT	WT	WT
ZOCA2025-101282	DW231444	WT	WT	WT	WT	WT	WT
ZOCA2025-101283	DW231445	WT	WT	WT	WT	WT	WT
ZOCA2025-101284	DW231446	WT	WT	WT	WT	WT	WT
ZOCA2025-101285	DW231447	WT	WT	WT	WT	WT	WT
ZOCA2025-101286	DW231449	WT	WT	WT	WT	WT	WT
ZOCA2025-101287	DW231451	WT	WT	WT	WT	WT	WT



Dr Christiaan Labuschagne
Genomics Manager



Seyuri Rajaruthnam
Analyst

2025/11/05

Date

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