



VETERINARY GENETICS LABORATORY  
SCHOOL OF VETERINARY MEDICINE  
ONE SHIELDS AVENUE  
DAVIS, CALIFORNIA 95616-8744

TELEPHONE: (530) 752-2211  
FAX: (530) 752-3556

## CATTLE GENETIC MARKER REPORT

DONNA SCHINDLER 1345 BLUE MILL RD DEL RIO, TN 37727	<b>Case:</b> NC28551 <b>Date Received:</b> 01-Oct-2015 <b>Print Date:</b> 09-Oct-2015 <b>Report ID:</b> 5234-5177-5024-1013 Verify report at <a href="http://www.vgl.ucdavis.edu/myvgl/verify.html">www.vgl.ucdavis.edu/myvgl/verify.html</a>
<b>Name:</b> TITUS <b>DOB:</b> 07/29/2015 <b>Sex:</b> Male <b>Breed:</b> Jersey <b>Owner ID:</b>	<b>Reg:</b>
<b>Sire:</b> <b>Dam:</b> MOLLY	<b>Reg:</b> BCC2664

## ANALYSIS

Permanent Record.

## GENETIC MARKERS

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
BM1818	264/266	BM1824	180/182	BM2113	135/137
BRR	254/258	CYP21	187	ETH003	117
ETH10	215/217	ETH225	144/150	INRA23	206
RM006	118	RM067	102	SPS115	252
TGLA122	143/149	TGLA126	115/117	TGLA227	81/95
TGLA53	170/176				



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**DEXTER / POLLED TEST RESULTS**

DONNA SCHINDLER 1345 BLUE MILL RD DEL RIO, TN 37727	<b>Case:</b> NC28551 <b>Date Received:</b> 01-Oct-2015 <b>Print Date:</b> 09-Oct-2015 <b>Report ID:</b> 8191-5283-9379-1164 Verify report at <a href="http://www.vgl.ucdavis.edu/myvgl/verify.html">www.vgl.ucdavis.edu/myvgl/verify.html</a>
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<b>Name:</b> TITUS <b>DOB:</b> 07/29/2015 <b>Sex:</b> Male <b>Breed:</b> Jersey <b>Owner ID:</b>	<b>Reg:</b>
<b>Sire:</b> <b>Dam:</b> MOLLY	<b>Reg:</b> BCC2664

<b>MC1R (EXTENSION)</b>	
Not Requested	
<b>DUN</b>	
Not Requested	
<b>PHA</b>	
Not Requested	
<b>POLLED</b>	POLLED. One copy of the Polled-Friesian molecular marker is present. At least 50% of the offspring will be polled.
<b>Pf/H</b>	
<b>BULLDOG DWARFISM - BD1</b>	Normal, does not have the Dexter BD1 Bulldog mutation.
<b>N/N</b>	
<b>BULLDOG DWARFISM - BD2</b>	
Not Requested	



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**MILK PROTEIN DNA TEST REPORT**

DONNA SCHINDLER 1345 BLUE MILL RD DEL RIO, TN 37727	<b>Case:</b> NC28551 <b>Date Received:</b> 01-Oct-2015 <b>Print Date:</b> 09-Oct-2015 <b>Report ID:</b> 3308-5501-6826-5095 Verify report at <a href="http://www.vgl.ucdavis.edu/myvgl/verify.html">www.vgl.ucdavis.edu/myvgl/verify.html</a>
<b>Name:</b> TITUS DOB: 07/29/2015 Sex: Male Breed: Jersey	<b>Reg:</b>
<b>Sire:</b> Dam: MOLLY	<b>Reg:</b> BCC2664

A2 Genotyping	Kappa Casein	Beta Lactoglobulin
A2/A2	Not Requested	Not Requested

**A2 Genotyping (Beta Casein)** - milk yield and protein content. The **A2** variant has been shown to have a positive association with milk yield and protein content. The **A2/A2** genotype is also considered to have positive effects on human health.

**Kappa Casein** - protein yield and percentage. The **A** variant and **AA** genotype are associated with higher milk production. The **B** variant and **BB** genotype are associated with increased milk protein and casein content, and better cheese yield. Relative to protein content and cheese production, **BB** is the most favorable genotype, **AB** is intermediate and **AA** is the least favorable.

**Beta Lactoglobulin** - milk yield and whey protein content. The **A** variant is associated with increased milk yield and whey protein content. The **B** variant is associated with increased casein and fat content and is favorable for cheese production.

As a licensed laboratory, VGL is required to send A2 Corporation Limited a copy of all A2 Gene Tests. **Note: ONLY the A2 Beta Casein result will be sent to A2 Corporation Limited.**

VGL is an A2 Corporation Limited (A2C) accredited and registered A2 Gene Tester. A2 Gene Tests conform to the specification and are validated to the standards of A2C. A2C will only access information relating to you and your animals from testing carried out by the VGL for the purpose of contacting you about potential milk supply and to maintain a register of A2 gene tested animals. A2C owns various intellectual property rights (including patent rights, trade marks, and technical and commercial know how) relating to the commercial production and sale of a2™ branded milk or milk with reduced beta casein A1. It is possible that commercial use of test results may fall within the scope of such intellectual property rights, so if you intend to form a herd of animals used to produce a2™ branded milk or milk with reduced beta casein A1 on a commercial scale, you should contact A2C for more information.