



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

TELEPHONE: (530) 752-2211
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DEXTER / POLLED TEST RESULTS

MICHAEL ROBINSON 431 CALLOWHILL RD. MOHRSVILLE, PA 19541	Case: NC23686 Date: 09-Mar-2015 Print Date: 03-Aug-2015 Report ID: 6384-5295-4920-1120 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: MPRR CLEOPATRA Reg: MJHB DOB: 03/04/2015 Sex: Female Breed: Owner ID:	
Sire: D C LITTLE DYNAMITE Reg: AMJ 967 / 4973-MCBR Dam: UMBLETOWN LYNN Reg: 4500-MCBR	

MC1R (EXTENSION)
Not requested
DUN
Not requested

BULLDOG DWARFISM	Normal, does not have the Dexter BD1 Bulldog mutation.
N/N	

PHA
Not requested

POLLED	POLLED. One copy of the Polled-Friesian molecular marker is present. At least 50% of the offspring will be polled.
Pf/H	

UNIVERSITY OF CALIFORNIA, DAVIS

Ear Tag #
(Left)

MPRR
13



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CATTLE PARENTAGE AND GENETIC MARKER REPORT

MICHAEL ROBINSON 431 CALLOWHILL RD. MOHRSVILLE, PA 19541		Case: NC23686 Date: 09-Mar-2015 Print Date: 16-Aug-2015 Report ID: 1633-1581-0144-3199 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: MPRR CLEOPATRA / <i>Gentle Blessing</i> DOB: 03/04/2015 Sex: Female Breed: Owner ID:		Reg: MJHB
Sire: D C Little Dynamite Dam: Umbletown Lynn		Reg: AMJ 967 / 4973-MCBR Reg: 4500-MCBR

PARENTAGE ANALYSIS

MPRR Cleopatra MJHB qualifies as an offspring of Umbletown Lynn 4500-MCBR and D C Little Dynamite AMJ 967 / 4973-MCBR.

GENETIC MARKERS

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
BM1818	266	BM1824	178/180	BM2113	125/129
BRR	248/254	CYP21	198	ETH003	117/125
ETH10	221	ETH225	150	INRA23	206/208
RM006	110	RM067	90	SPS115	248/252
TGLA122	143/169	TGLA126	115/117	TGLA227	93/95
TGLA53	170				

The Veterinary Genetics Laboratory is an institutional member of ISAG. DNA types are reported according to standardized nomenclature for markers in the ISAG panel.



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MILK PROTEIN DNA TEST REPORT

MICHAEL ROBINSON 431 CALLOWHILL RD. MOHRSVILLE, PA 19541	Case: NC23686 Date: 09-Mar-2015 Print Date: 21-Apr-2015 Report ID: 1502-4138-6790-0051 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: MPRR CLEOPATRA Reg: MJHB DOB: 03/04/2015 Sex: Female Breed:	
Sire: D C LITTLE DYNAMITE Reg: AMJ 967 / 4973-MCBR Dam: UMBLETOWN LYNN Reg: 4500-MCBR	

A2 Genotyping	Kappa Casein	Beta
A1/A2	A/B	B/B

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.