



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

TELEPHONE: (530) 752-2211
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MILK PROTEIN DNA TEST REPORT

MARGARET SORHUS ROUTE 1 BOX 93 QUEEN CITY, MO 63561	Case: NC27695 Date: 04-Aug-2015 Print Date: 30-Mar-2016 Report ID: 7987-9896-0912-7155 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: SOUTH HOUSE PIPER <i>Reg:</i> DOB: 07/14/2015 Sex: Female Breed:	
Sire: SUNSHINE ACRES LOYAL <i>Reg:</i> Dam: SOUTH HOUSE MERCURY <i>Reg:</i>	

A2 Genotyping	Kappa Casein	Beta
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.



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DEXTER / POLLED TEST RESULTS

<p>MARGARET SORHUS ROUTE 1 BOX 93 QUEEN CITY, MO 63561</p>	<p>Case: NC27695 Date: 04-Aug-2015 Print Date: 30-Mar-2016 Report ID: 4627-1003-4248-1180 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html</p>
<p>Name: SOUTH HOUSE PIPER Reg: _____ DOB: 07/14/2015 Sex: Female Breed: _____</p>	
<p>Sire: SUNSHINE ACRES LOYAL Reg: _____ Dam: SOUTH HOUSE MERCURY Reg: _____</p>	

MC1R (EXTENSION)	
Not Requested	
DUN	
Not Requested	
PHA	
Not Requested	
POLLED	POLLED. One copy of Polled-Celtic and 1 copy of Polled-Friesian molecular markers are present. All offspring will be polled.
Pc/Pf	
BULLDOG DWARFISM - BD1	Normal, does not have the Dexter BD1 Bulldog mutation.
N/N	
BULLDOG DWARFISM - BD2	
Not Requested	



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CATTLE GENETIC MARKER REPORT

MARGARET SORHUS ROUTE 1 BOX 93 QUEEN CITY, MO 63561		Case: NC27695 Date: 04-Aug-2015 Print Date: 30-Mar-2016 Report ID: 6540-5979-2587-3048 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: SOUTH HOUSE PIPER DOB: 07/14/2015 Sex: Female Breed:	Reg:	
Sire: SUNSHINE ACRES LOYAL Dam: SOUTH HOUSE MERCURY	Reg:	

ANALYSIS

Permanent Record.

GENETIC MARKERS

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
BM1818	264/266	BM1824	178/188	BM2113	135
BRR	246/250	CYP21	198/200	ETH003	117
ETH10	215	ETH225	146/148	INRA23	214
RM006	110/124	RM067	90/102	SPS115	248/252
TGLA122	169	TGLA126	117	TGLA227	91
TGLA53	168/176				