

# CATTLE PARENTAGE AND GENETIC MARKER TEST REPORT

Provided Information:

Name: BBY JONATHAN

Registration:

Reg:

Case: MJH54

Date Received: 08-Feb-2021
Report Issue Date: 03-Mar-2021

 Report ID:
 8733-2273-3198-8168

 Reissue of:
 5862-4822-6137-2111

Verify report at www.vgl.ucdavis.edu/verify

DOB: 01/24/2021 Sex: Male Breed: Mini-Mid Jerseys

Sire: HCC MATTHEW Dam: HCC ROSES LIL SNOWBALL

pending Reg: AMJ1549P

Microchip: Microchip:

# RESULTS AND INTERPRETATION

BBY Jonathan qualifies as an offspring of HCC Matthew pending without consideration of the dam. Among the 2 males given to compare (NC47190, NC28551), only HCC Matthew pending qualifies as a possible sire.

# **GENETIC MARKERS**

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
BM1818	262	BM1824	182/188	BM2113	135
BRR	254/260	CYP21	187/198	ETH003	117
ETH10	215	ETH225	148/150	INRA23	198
RM006	118	RM067	90/92	SPS115	260/261
TGLA122	149/161	TGLA126	117	TGLA227	81/83
TGLA53	170				



# CATTLE PARENTAGE AND GENETIC MARKER TEST REPORT

Client/Owner/Agent Information: JOSHUA AND LIYA FLEMING 221 HOPE LN DUNLAP, TN 37327

 Case:
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Name: BBY JONATHAN

#### **Additional Information**

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

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

For more detailed information on Parentage test results, please visit our website at: www.vgl.ucdavis.edu/services/dnatyping.php

#### **Additional Comments**

For terms and conditions of testing, please see www.vgl.ucdavis.edu/about/terms-and-conditions

Results are determined using PCR-based methods. The results relate only to the sample tested as identified by the submitter (for example, identity and/or breed).

Report authorized by Dr. Rebecca Bellone, VGL Director



# DEXTER GENETIC TEST REPORT

Case: Provided Information: Date Received:

08-Feb-2021 **BBY JONATHAN** Name: Report Issue Date: 22-Feb-2021

Report ID: 9985-1247-1310-2035 Registration:

Verify report at www.vgl.ucdavis.edu/verify

**MJH54** 

DOB: 01/24/2021 Sex: Male Breed: Mini-Mid Jerseys

Dam: HCC ROSES LIL SNOWBALL Sire:

AMJ1549P Reg: Reg:

Microchip: Microchip:

RESULT	INTERPRETATION			
MC1R (EXTENSION)				
Not Requested				
Dun (TYRP1)				
Not Requested				
Pulmonary Hypoplasia				
with Anasarca (PHA)				
Not Requested				
Polled vs. Horned	POLLED. Two copies of the Polled-Friesian molecular marker are present. All offspring will be polled.			
Pf/Pf				
Bulldog Dwarfism (BD1)	Normal, does not have the Dexter BD1 Bulldog mutation.			
N/N	Tromai, does not have the Bexter BB i Baildog matation.			
Bulldog Dwarfism (BD2)				
Not Requested				



### DEXTER GENETIC TEST REPORT

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 Case:
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 Date Received:
 08-Feb-2021

 Report Issue Date:
 22-Feb-2021

Report ID: 9985-1247-1310-2035

Verify report at www.vgl.ucdavis.edu/verify

Name: BBY JONATHAN

#### **Additional Information**

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Dexter Genetic test results, please visit our website at: www.vgl.ucdavis.edu/services/cattle/dexter-tests

For terms and conditions of testing, please see www.vgl.ucdavis.edu/about/terms-and-conditions

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Report authorized by Dr. Rebecca Bellone, VGL Director



### CATTLE MILK PROTEIN GENETIC TEST REPORT

Provided Information:

Case: MJH54

Date Received: 08-Feb-2021

Name: BBY JONATHAN Report Issue Date: 22-Feb-2021

Registration: 3423-3307-7536-0035

Verify report at www.vgl.ucdavis.edu/verify

DOB: 01/24/2021 Sex: Male Breed: Mini-Mid Jerseys

Sire: Dam: HCC ROSES LIL SNOWBALL

Reg: Reg: AMJ1549P

Microchip: Microchip:

Beta Casein Result	Kappa Casein Result	Beta Lactoglobulin Result
A2/B	A/B	В/В

# Beta Casein (A2 Genotyping) Interpretation

In the A2C nomenclature for A2 genotyping, the Beta Casein above corresponds to A1/A2.

Milk yield and protein content. The A2 variant has been shown to have a positive association with milk yield and protein content. The expanded beta case in test reflected in this report detects variants A1, A2, A3, B, C, D, E, F, G, H1, H2, I, K and L.

Based on the aminoacid present in position 67 these variants can be classified into 2 groups - A1 and A2. Variants in the A1-group (Histidine) are A1, B, C, F and G. Variants in the A2-group (Proline) are A2, A3, D, E, H1, H2, I, K and L. The levels of bioactive peptide beta-casomorphin 7 (BCM7) produced from the metabolism of beta casein is several-fold higher for variants in the A1 group than in the A2 group. Higher levels of BCM7 have been associated with negative health effects in humans. Relative to levels of BCM7 production, variants within each group behave similarly but may differ in other properties.

### Kappa Casein Interpretation

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 Interpretation**

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.



### CATTLE MILK PROTEIN GENETIC TEST REPORT

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Name: BBY JONATHAN

#### **Additional Information**

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Milk Protein test results, please visit our website at: www.vgl.ucdavis.edu/panel/cattle-milk-protein-panel

For terms and conditions of testing, please see www.vgl.ucdavis.edu/about/terms-and-conditions

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Report authorized by Dr. Rebecca Bellone, VGL Director