

Provided Information:		Case:	MJH58
Name:	MHF RED RIVER	Date Received:	01-Mar-2021
Registration:		Report Issue Date:	07-Mar-2021
		Report ID:	4888-2204-6081-3100
Verify report at www.vgl.ucdavis.edu/verify			
DOB: 02/05/2021 Sex: Male Breed: Mini-Mid Jerseys			
Sire:	MHF CINCO	Dam:	MHF HOLLEE BUG
Reg:		Reg:	MJHB
Microchip:		Microchip:	

Beta Casein Result	Kappa Casein Result	Beta Lactoglobulin Result
A2/I	Not Requested	Not Requested

Beta Casein (A2 Genotyping) Interpretation

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

Client/Owner/Agent Information: ANNIE ARMOLT 101 MCCARTHY RD OPELIKA, AL 36804	Case: MJH58 Date Received: 01-Mar-2021 Report Issue Date: 07-Mar-2021 Report ID: 4888-2204-6081-3100 Verify report at www.vgl.ucdavis.edu/verify
Name: MHF RED RIVER	

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

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