

CATTLE PARENTAGE AND GENETIC MARKER TEST REPORT

<i>Provided Information:</i> Name: AF KA HAL Registration:	Case: DEX12254 Date Received: 22-Sep-2025 Report Issue Date: 30-Sep-2025 Report ID: 3118-6659-8702-0139 Verify report at vgl.ucdavis.edu/verify
DOB: 06/07/2025 Sex: Female Breed: Dexter Alt. ID: 840-003-284-099-649	
Sire: KIRKHAVEN DILLON Reg: pending Microchip:	Dam: KIRKHAVEN GERTRUDE Reg: pending Microchip:

RESULTS AND INTERPRETATION

AF Ka Hal qualifies as an offspring of Kirkhaven Gertrude pending and Kirkhaven Dillon pending.

GENETIC MARKERS

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
BM1818	258	BM1824	182	BM2113	133/135
BRR	260	CYP21	198	ETH003	119/127
ETH10	219/223	ETH225	144/150	INRA23	202/208
RM006	116	RM067	102	SPS115	248/261
TGLA122	143/175	TGLA126	115	TGLA227	81/87

DEXTER GENETIC TEST REPORT

Provided Information: Name: AF KA HAL Registration:	Case: DEX12254 Date Received: 22-Sep-2025 Report Issue Date: 29-Sep-2025 Report ID: 5924-3886-5030-1093 Verify report at vgl.ucdavis.edu/verify
DOB: 06/07/2025 Sex: Female Breed: Dexter Alt. ID: 840-003-284-099-649	

RESULT	INTERPRETATION
MC1R (EXTENSION)	Animal has one copy of wild type and one copy of recessive red and is red in color.
E⁺/e	
Dun (TYRP1)	
Not Requested	
Dexter Dilution (SLC45A2)	
Not Requested	
Pulmonary Hypoplasia with Anasarca (PHA)	
Not Requested	
Polled vs. Horned	
Not Requested	
Bulldog Dwarfism (BD1)	Normal, does not have the Dexter BD1 Bulldog mutation.
N/N	
Bulldog Dwarfism (BD2)	
Not Requested	



CATTLE MILK PROTEIN GENETIC TEST REPORT

Provided Information:	Case: DEX12254
Name: AF KA HAL	Date Received: 22-Sep-2025
Registration:	Report Issue Date: 29-Sep-2025
	Report ID: 5954-1349-7021-2071
Verify report at vgl.ucdavis.edu/verify	
DOB: 06/07/2025 Sex: Female Breed: Dexter Alt. ID: 840-003-284-099-649	

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

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.

AMERICAN DEXTER CATTLE ASSOCIATION

CERTIFICATE OF REGISTRATION A.F. Ka Hal *No.* 058353

DATE OF BIRTH:	SEX:	COLOR:	POLL:	CHONDRO:	PHA:	PARENTAGE DNA:	BREEDING:	LEFT/RIGHT ID:	DATE REGISTERED:
Jun 7, 2025	Female	Red	Polled	Noncarrier	Noncarrier	G5 - Sire and dam qualify	Pasture	- / 099649	Oct 4, 2025

SIRE: Kirkhaven Dillon 042657

- Kirkhaven My Cabernet 030931
 - DL Reuben 025258
 - Jerac Violet 023793
- Moosters Harvest Moon 037698
 - PRF Hondo Lane 031963
 - Gladhour Wrencesky 022562

DAM: Kirkhaven Gertrude 053595

- Sprague's Harv 048895
 - Dexter Downs Jagger 035589
 - Sprague's Hope 024172
- Kirkhaven I Remember 042648
 - Kirkhaven My Cabernet 030931
 - ESF Red Rainbow 025652

This is to certify that the animal described herein has been accepted into the American Dexter Cattle Association herdbook. This certificate is issued in full reliance upon the truth of the statements contained in the application file therefor, but in no event is it to be deemed a guarantee by the Association of the breeding of this animal.

BREEDER #10711
Holly & Marvin Golden
455 Hansell Chastain Rd
Thomasville, GA 31757

OWNER #10711
Holly & Marvin Golden
455 Hansell Chastain Rd
Thomasville, GA 31757

Jill Delaney
Registrar, American Dexter Cattle Association
Oct 4, 2025
Date of Issue

If ownership is transferred, this certificate is to be endorsed on the reverse side and mailed to the Registrar with the appropriate fee.