

CATTLE PARENTAGE AND GENETIC MARKER TEST REPORT

<i>Provided Information:</i>		<i>Case:</i>	DEX12379
<i>Name:</i>	AF CIRAN	<i>Date Received:</i>	20-Oct-2025
<i>Registration:</i>		<i>Report Issue Date:</i>	22-Oct-2025
		<i>Report ID:</i>	3555-2473-2950-2091
		Verify report at vgl.ucdavis.edu/verify	
DOB: 08/02/2025 Sex: Female Breed: Dexter Alt. ID: 840-003-284-988-650			
<i>Sire:</i>	KIRKHAVEN DILLON	<i>Dam:</i>	AF TOVIA
<i>Reg:</i>	pending	<i>Reg:</i>	
<i>Microchip:</i>		<i>Microchip:</i>	

RESULTS AND INTERPRETATION

AF Ciran qualifies as an offspring of AF Tovia and Kirkhaven Dillon pending.

GENETIC MARKERS

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
BM1818	258/266	BM1824	182/188	BM2113	133/135
BRR	258/260	CYP21	198	ETH003	117/127
ETH10	215/219	ETH225	146/150	INRA23	208/214
RM006	110	RM067	94/102	SPS115	248/261
TGLA122	143	TGLA126	115	TGLA227	87/93

CATTLE COAT COLOR TEST REPORT

Provided Information: Name: AF CIRAN Registration:	Case: DEX12379 Date Received: 20-Oct-2025 Report Issue Date: 23-Oct-2025 Report ID: 3035-6217-1211-8175 Verify report at vgl.ucdavis.edu/verify
DOB: 08/02/2025 Sex: Female Breed: Dexter Alt. ID: 840-003-284-988-650	

RESULT

INTERPRETATION

DILUTION (PMEL17)		Not Requested
MC1R (EXTENSION)	E ⁺ /E ⁺	Wild type.

POLLED VS. HORNED GENETIC TEST REPORT

<i>Provided Information:</i>		<i>Case:</i>	DEX12379
<i>Name:</i>	AF CIRAN	<i>Date Received:</i>	20-Oct-2025
<i>Registration:</i>		<i>Report Issue Date:</i>	23-Oct-2025
		<i>Report ID:</i>	5608-2163-7081-1037
		Verify report at vgl.ucdavis.edu/verify	
<i>DOB:</i> 08/02/2025 <i>Sex:</i> Female <i>Breed:</i> Dexter <i>Alt. ID:</i> 840-003-284-988-650			

Polled vs. Horned Result

Pc/H

Interpretation

- H/H** HORNED. No copies of either Polled molecular marker are present.
- Pf/H** POLLED. One copy of the Polled-Friesian molecular marker is present. At least 50% of the offspring will be polled.
- Pf/Pf** POLLED. Two copies of the Polled-Friesian molecular marker are present. All offspring will be polled.
- Pc/H** POLLED. One copy of the Polled-Celtic molecular marker is present. At least 50% of the offspring will be polled.
- Pc/Pc** POLLED. Two copies of the Polled-Celtic molecular marker are present. All offspring will be polled.
- Pc/Pf** POLLED. One copy of Polled-Celtic and 1 copy of Polled-Friesian molecular markers are present. All offspring will be polled.



CATTLE MILK PROTEIN GENETIC TEST REPORT

Provided Information:	Case: DEX12379
Name: AF CIRAN	Date Received: 20-Oct-2025
Registration:	Report Issue Date: 24-Oct-2025
	Report ID: 5490-1624-3603-3019
Verify report at vgl.ucdavis.edu/verify	
DOB: 08/02/2025 Sex: Female Breed: Dexter Alt. ID: 840-003-284-988-650	

Beta Casein Result	Kappa Casein Result	Beta Lactoglobulin Result
A2/A2	A/B	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. Ciran No. 058492

DATE OF BIRTH:	SEX:	COLOR:	POLL:	CHONDRO:	PHA:	PARENTAGE DNA:	BREEDING:	LEFT/RIGHT ID:	DATE REGISTERED:
Aug 2, 2025	Female	Red	Polled	Noncarrier	Noncarrier	G5 - Sire and dam qualify	Pasture	- / 988650	Oct 27, 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 AF Tovia 048421

- Kirkhaven Shepherd's Sky 041206
 - Kirkhaven Judah Jubilee 038337
 - Moosters On the Rocks 036507
- Kirkhaven Dakota Surprise 038768
 - FF Freedom's Kirkhaven 032243
 - Kirkhaven Our Anniversary 033882

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 Oct 27, 2025
Registrar, American Dexter Cattle Association 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.