

AMERICAN DEXTER CATTLE ASSOCIATION

CERTIFICATE OF REGISTRATION

NAME: **A.F. Dillon's King** NUMBER: **050686** SEX: **BULL** LEFT ID:
DATE OF BIRTH: **07/18/2021** COLOR: **Red** POLLED RIGHT ID: **110 945**
PARENTAGE DNA: **G5** CHONDRO: **Non-Carrier** BREEDING: **PASTURE** PHA: **Non-Carrier**
PARENTAGE DNA. G1 no genotype on file G2 genotype on file G3 sire qualifies G4 dam qualifies G5 sire and dam qualify

SIRE: Kirkhaven Dillon 042657
Kirkhaven My Cabernet 030931
Moosters Harvest Moon 037698

DAM: Kirkhaven Dakota Surprise 038768
FF Freedom's Kirkhaven 032243
Kirkhaven Our Anniversary 033882

DL Reuben 025258
Jerac Violet 023793
PRF Hondo Lane 031963
Gladhour Wrencesky 022562
FF Freedom's Valor 026101
WHF My Genesis Dawn 025666
DL Reuben 025258
Ridings Farm Mary J 025089

THIS IS TO CERTIFY that the animal described above has been accepted for the American Dexter Cattle Association herd book. 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.

Bred By:
Holly & Marvin Golden
455 Hansell Chastain Rd
Thomasville, GA 31757

Owner:
Rodney Wrenfroe
2738 Grantham Drive
Chipley, FL 32428

Owner #10711

Owner #13740

AMERICAN DEXTER CATTLE ASSOCIATION

Jill Delaney
Registrar

Date of Issue: April-10-2022

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



CATTLE MILK PROTEIN GENETIC TEST REPORT

<i>Provided Information:</i>		Case: DEX7451
<i>Name:</i> AF DILLONS KING		<i>Date Received:</i> 01-Nov-2021
<i>Registration:</i>		<i>Report Issue Date:</i> 15-Nov-2021
		<i>Report ID:</i> 1897-9577-0742-6113
		Verify report at www.vgl.ucdavis.edu/verify
<i>DOB:</i> 07/18/2021 <i>Sex:</i> Male <i>Breed:</i> Dexter		

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.



**CATTLE PARENTAGE AND GENETIC MARKER
 TEST REPORT**

<i>Provided Information:</i>		<i>Case:</i> DEX7451
<i>Name:</i> AF DILLONS KING		<i>Date Received:</i> 01-Nov-2021
<i>Registration:</i>		<i>Report Issue Date:</i> 12-Nov-2021
		<i>Report ID:</i> 2402-8162-2336-1184
		Verify report at www.vgl.ucdavis.edu/verify
<i>DOB:</i> 07/18/2021 <i>Sex:</i> Male <i>Breed:</i> Dexter		
<i>Sire:</i> KIRKHAVEN DILLON		<i>Dam:</i> KIRKHAVEN DAKOTA SURPRISE
<i>Reg:</i> pending		<i>Reg:</i> 038768
<i>Microchip:</i>		<i>Microchip:</i>

RESULTS AND INTERPRETATION

AF Dillons King qualifies as an offspring of Kirkhaven Dillon pending without consideration of the dam.

GENETIC MARKERS

<u>LOCUS</u>	<u>TYPE</u>	<u>LOCUS</u>	<u>TYPE</u>	<u>LOCUS</u>	<u>TYPE</u>
BM1818	266	BM1824	182	BM2113	137
BRR	258/260	CYP21	192/198	ETH003	117/127
ETH10	219	ETH225	146/150	INRA23	208/214
RM006	110/116	RM067	94/102	SPS115	248/256
TGLA122	151/175	TGLA126	115/117	TGLA227	87

AMERICAN DEXTER CATTLE ASSOCIATION

CERTIFICATE OF REGISTRATION

NAME: **Bar None's April** NUMBER: **033870** SEX: **HEIFER** LEFT ID: **DJ23A**
DATE OF BIRTH: **08/14/2013** COLOR: **Dun** POLLED RIGHT ID:
PARENTAGE DNA: **CHONDRO Non-Carrier** BREEDING: **PASTURE** PHA: **Non-Carrier**
PARENTAGE DNA. G1 no genotype on file G2 genotype on file G3 sire qualifies G4 dam qualifies G5 sire and dam qualify

SIRE: Moses Meadow's Clint 025773
DAM: Bar None's Angie 022266

Trinity FF Sampson 019934
High Pines Calli 018763
JL MidKnight 15735
Hickory Hill Honey 018656

Svo Coco 14454
Prairie Aster 017090
Shome Jack 15140
HPR Lilly 17 018756
Lone Pine Farms Klondike 11420
SGF Dana 8635
Rainbow Hills Champ 7041
J.C. Hershey 7514

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Bred By:
David Jones
6730 Delbello Rd
Manvel, TX 77578

Owner:
Rodney Wrenfroe
2738 Grantham Drive
Chipley, FL 32428

Owner #781

Owner #13740

AMERICAN DEXTER CATTLE ASSOCIATION

Jill Delaney
Registrar
Date of Issue: April-10-2022

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

TELEPHONE: (530) 752-2211
FAX: (530) 752-3556

A2 GENOTYPING TEST

DOUGLAS LOYD 23211 TONY WALLACE RD ROBERTSDALE, AL 36567	Case: DEX2494 Date Received: 28-Nov-2016 Print Date: 03-Dec-2016 Report ID: 7955-2843-5746-1195 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: BAR NONE'S APRIL DOB: 08/14/2013 Sex: Female Breed: Dexter	Reg: 033870
Sire: MOSES MEADOW'S CLINT Dam: BAR NONE'S ANGIE	Reg: 025773 Reg: 022266

Test Result

A1/A2

Result Codes:

- A2/A2 2 copies of A2 present. If bred to other A2/A2 animals, only A2/A2 offspring will be produced
A1/A2 1 copy of A2 present. If bred to A2/A2 animals, 50% of offspring will be A2/A2
A1/A1 No copies of A2 present

As a licensed laboratory, VGL is required to send A2 Corporation Limited a copy of all A2 Gene Tests and to disclose the following:

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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MILK PROTEIN DNA TEST REPORT

DOUGLAS LOYD 23211 TONY WALLACE RD ROBERTSDALE, AL 36567	Case: DEX2494 Date Received: 28-Nov-2016 Print Date: 01-Dec-2016 Report ID: 5641-1672-9424-5115 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: BAR NONE'S APRIL Reg: 033870 DOB: 08/14/2013 Sex: Female Breed: Dexter	
Sire: MOSES MEADOW'S CLINT Reg: 025773 Dam: BAR NONE'S ANGIE Reg: 022266	

A2 Genotyping	Kappa Casein	Beta Lactoglobulin
A1/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

DOUGLAS LOYD 23211 TONY WALLACE RD ROBERTSDALE, AL 36567	Case: DEX2494 Date Received: 28-Nov-2016 Print Date: 01-Dec-2016 Report ID: 8990-8950-7456-2046 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: BAR NONE'S APRIL DOB: 08/14/2013 Sex: Female Breed: Dexter	Reg: 033870
Sire: MOSES MEADOW'S CLINT Dam: BAR NONE'S ANGIE	Reg: 025773 Reg: 022266

MC1R (EXTENSION)	Animal is dun and carries red.
E^D/E⁺	
DUN	
b/b	
PHA	
Not Requested	
POLLED	POLLED. One copy of the Polled-Celtic molecular marker is present. At least 50% of the offspring will be polled.
Pc/H	
BULLDOG DWARFISM - BD1	
Not Requested	
BULLDOG DWARFISM - BD2	
Not Requested	

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CATTLE GENETIC MARKER REPORT

DOUGLAS LOYD 23211 TONY WALLACE RD ROBERTSDALE, AL 36567	Case: DEX2494 Date Received: 28-Nov-2016 Print Date: 01-Dec-2016 Report ID: 6882-5106-7048-7162 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: BAR NONE'S APRIL DOB: 08/14/2013 Sex: Female Breed: Dexter	Reg: 033870
Sire: MOSES MEADOW'S CLINT Dam: BAR NONE'S ANGIE	Reg: 025773 Reg: 022266

ANALYSIS

Permanent Record.

GENETIC MARKERS

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
BM1818	258/262	BM1824	182/188	BM2113	125/135
BRR	258/260	CYP21	198/202	ETH003	117
ETH10	219/221	ETH225	144	INRA23	208/214
RM006	110/118	RM067	102	SPS115	248/261
TGLA122	141/143	TGLA126	115/123	TGLA227	89/93
TGLA53	162/168				

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

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DEXTER / POLLED TEST RESULTS

DOUGLAS LOYD 23211 TONY WALLACE RD ROBERTSDALE, AL 36567	Case: DEX2494 Date Received: 28-Nov-2016 Print Date: 01-Dec-2016 Report ID: 8990-8950-7456-2046 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Name: BAR NONE'S APRIL DOB: 08/14/2013 Sex: Female Breed: Dexter	Reg: 033870
Sire: MOSES MEADOWS CLINT Dam: BAR NONE'S ANGIE	Reg: 025773 Reg: 022266

MC1R (EXTENSION)	Animal is dun and carries red.
E^D/E⁺	
DUN	
b/b	
PHA	POLLED. One copy of the Polled-Celtic molecular marker is present. At least 50% of the offspring will be polled.
Not Requested	
POLLED	
Pc/H	POLLED. One copy of the Polled-Celtic molecular marker is present. At least 50% of the offspring will be polled.
BULLDOG DWARFISM - BD1	
Not Requested	
BULLDOG DWARFISM - BD2	POLLED. One copy of the Polled-Celtic molecular marker is present. At least 50% of the offspring will be polled.
Not Requested	

AMERICAN DEXTER CATTLE ASSOCIATION

CERTIFICATE OF REGISTRATION

NAME: **A.F. October Fire** NUMBER: **050687** SEX: **HEIFER** LEFT ID:
DATE OF BIRTH: **10/15/2021** COLOR: **Red** POLLED RIGHT ID: **110 928**
PARENTAGE DNA: **G5** CHONDRO: **Non-Carrier** BREEDING: **PASTURE** PHA: **Non-Carrier**
PARENTAGE DNA: G1 no genotype on file G2 genotype on file G3 sire qualifies G4 dam qualifies G5 sire and dam qualify

SIRE: Kirkhaven Dillon 042657
Kirkhaven My Cabernet 030931
Moosters Harvest Moon 037698

DAM: Bar None's April 033870
Moses Meadow's Clint 025773
Bar None's Angie 022266

DL Reuben 025258
Jerac Violet 023793
PRF Hondo Lane 031963
Gladhour Wrencesky 022562
Trinity FF Sampson 019934
High Pines Calli 018763
JL MidKnight 15735
Hickory Hill Honey 018656

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Bred By:
Holly & Marvin Golden
455 Hansell Chastain Rd
Thomasville, GA 31757

Owner:
Rodney Wrenfroe
2738 Grantham Drive
Chipley, FL 32428

Owner #10711

Owner #13740

AMERICAN DEXTER CATTLE ASSOCIATION

Jill Delaney
Registrar

Date of Issue: April-10-2022

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CATTLE PARENTAGE AND GENETIC MARKER TEST REPORT

<p><i>Provided Information:</i></p> <p><i>Name:</i> AF OCTOBER FIRE</p> <p><i>Registration:</i></p>	<p><i>Case:</i> DEX7510</p> <p><i>Date Received:</i> 24-Nov-2021</p> <p><i>Report Issue Date:</i> 13-Dec-2021</p> <p><i>Report ID:</i> 8758-0050-2979-6182</p> <p style="text-align: center; font-size: small;">Verify report at www.vgl.ucdavis.edu/verify</p>
<p><i>DOB:</i> 10/15/2021 <i>Sex:</i> Female <i>Breed:</i> Dexter</p>	
<p><i>Sire:</i> KIRKHAVEN DILLON</p> <p><i>Reg:</i> pending</p> <p><i>Microchip:</i></p>	<p><i>Dam:</i> BAR NONE'S APRIL</p> <p><i>Reg:</i> 033870</p> <p><i>Microchip:</i></p>

RESULTS AND INTERPRETATION

AF October Fire qualifies as an offspring of Bar None's April 033870 and Kirkhaven Dillon pending.

GENETIC MARKERS

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
<i>BM1818</i>	258	<i>BM1824</i>	182/188	<i>BM2113</i>	125/137
<i>BRR</i>	258/260	<i>CYP21</i>	198/202	<i>ETH003</i>	117/127
<i>ETH10</i>	221/223	<i>ETH225</i>	144/150	<i>INRA23</i>	208/214
<i>RM006</i>	116/118	<i>RM067</i>	102	<i>SPS115</i>	248/261
<i>TGLA122</i>	141/175	<i>TGLA126</i>	115/123	<i>TGLA227</i>	87/93

CATTLE PARENTAGE AND GENETIC MARKER TEST REPORT

Client/Owner/Agent Information: HOLLY GOLDEN 455 HANSELL CHASTAIN ROAD THOMASVILLE, GA 31757	Case: DEX7510 Date Received: 24-Nov-2021 Report Issue Date: 13-Dec-2021 Report ID: 8758-0050-2979-6182 Verify report at www.vgl.ucdavis.edu/verify
Name: AF OCTOBER FIRE	

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

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

Veterinary Genetics Laboratory · University of California Davis · One Shields Ave · Davis, CA 95616
vgl.ucdavis.edu · (530) 752-2211

CATTLE COAT COLOR TEST REPORT

<i>Provided Information:</i>	<i>Case:</i> DEX7510
<i>Name:</i> AF OCTOBER FIRE	<i>Date Received:</i> 24-Nov-2021
<i>Registration:</i>	<i>Report Issue Date:</i> 13-Dec-2021
	<i>Report ID:</i> 6860-0963-1638-2122
	Verify report at www.vgl.ucdavis.edu/verify
<i>DOB:</i> 10/15/2021 <i>Sex:</i> Female <i>Breed:</i> Dexter	

RESULT

INTERPRETATION

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

CATTLE COAT COLOR TEST REPORT

<p><i>Client/Owner/Agent Information:</i> HOLLY GOLDEN 455 HANSELL CHASTAIN ROAD THOMASVILLE, GA 31757</p>	<p>Case: DEX7510 <i>Date Received:</i> 24-Nov-2021 <i>Report Issue Date:</i> 13-Dec-2021 <i>Report ID:</i> 6860-0963-1638-2122</p> <p>Verify report at www.vgl.ucdavis.edu/verify</p>
<p><i>Name:</i> AF OCTOBER FIRE</p>	

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 Cattle Coat Color test results, please visit our website at:
www.vgl.ucdavis.edu/test/mc1r-cattle
www.vgl.ucdavis.edu/test/cattle-dilution

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

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vgl.ucdavis.edu · (530) 752-2211



<p><i>Provided Information:</i></p> <p><i>Name:</i> AF OCTOBER FIRE</p> <p><i>Registration:</i></p>	<p><i>Case:</i> DEX7510</p> <p><i>Date Received:</i> 24-Nov-2021</p> <p><i>Report Issue Date:</i> 16-Dec-2021</p> <p><i>Report ID:</i> 5865-0214-3292-9115</p> <p style="text-align: right; font-size: small;">Verify report at www.vgl.ucdavis.edu/verify</p>
<p><i>DOB:</i> 10/15/2021 <i>Sex:</i> Female <i>Breed:</i> Dexter</p>	

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.

<p><i>Client/Owner/Agent Information:</i> HOLLY GOLDEN 455 HANSELL CHASTAIN ROAD THOMASVILLE, GA 31757</p>	<p>Case: DEX7510 <i>Date Received:</i> 24-Nov-2021 <i>Report Issue Date:</i> 16-Dec-2021 <i>Report ID:</i> 5865-0214-3292-9115</p> <p>Verify report at www.vgl.ucdavis.edu/verify</p>
<p><i>Name:</i> AF OCTOBER FIRE</p>	

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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