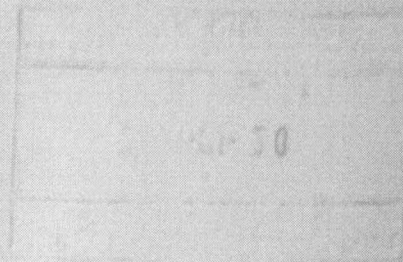




agriculture, land reform
& rural development

Department
Agriculture, Land Reform and Rural Development
REPUBLIC OF SOUTH AFRICA



VETERINARY MASTER PERMIT NO: NO MASTER

VALID FROM: 2024/04/30
EXPIRY DATE: 2024/10/29

IMPORTATION OF SEMEN: AUTHORISATION NO. S0178/24-1

(Issued in terms of section 16 of the Animal Improvement Act, 1998)

Expiry date: 2024/10/29 for Authorization No. S0178/24-1

Authorization is hereby granted to: CRV XSEED PTY LTD.

of: P O BOX 12025, BRANDHOF, BLOEMFONTEIN, 9324.

for the importation BOVINE semen of the ANGUS breed
from (country of origin): USA.

Semen will be cleared by:
CRV XSEED PTY LTD.

Name of Animals	Reg. No.	Number of doses
DUFF ARGENTINO 22510	AAA20574453	5000
3201 FREDERICK AVENUE, SAINT JOSEPH, MO, 64506.		

TOTAL: 5000

CONDITION

- Certification by the exporting country that the number of unfrozen (live) spermatozoa per dose complies with the minimum amount specified on the reverse side of this document.
- DNA profiles must be provided to the Registrar of Animal Improvement, and the relevant Breeders Society before release from quarantine, if not available at time of importation.

This authorization is subject to the compliance with the veterinary requirements set out in the attached permit and is also subject thereto that the intended importation meets with all the provisions of the said Act. This authorization does not exempt the importer from the provisions of any other law. This authorization may be withdrawn by the Registrar should any false information be discovered in the application. This authorization is also not transferable. Imported semen shall under no circumstances be transferred, sold, given or donated to any other person or body unless prior written approval from the Registrar has been obtained. Any such approval shall be considered as new application for the importation of semen.

PP. 
REGISTRAR: ANIMAL IMPROVEMENT

DATE: 2024/04/30

CRV X-seed

11/4/2024

Permit ✓
DNA ✓

Geno Verslag ✓

AMERICAN ANGUS ASSOCIATION

3201 Frederick Ave., Saint Joseph, Missouri 64506-2997

PHONE: 816-383-5100

NAME OF ANIMAL	SEX	REGISTRY NO.	DATE CALVED	FREEZE BRAND	
DUFF ARGENTINO 22510	Bull	AAA 20574453	9/15/2022	22510	22510
BREEDER Duff, Kirk Hobart OK					
[AMF-CAF-D2F-DDF-M1F-NHF-OHF-OSF-RDF]					

	BC EAGLE EYE 110-7	BC LOOKOUT 7024	AAA #+14791623[AMF-CAF-XF]
			AAA #*15751696[AMF-CAF-XF]
		BC PURE PRIDE ERICA D 110	AAA #*13917354
	BC SURVEYOR 680D		AAA #*17629667
		BC MATRIX 4132	AAA #*14159119[AMF-CAF-XF]
	BC 2266 PRIDES LASS 4132 680		AAA 15652516
		CANE RIDGE PRIDES LASS 2266L	AAA 14063773
SIRE	BC ROBUST 0807		AAA 18456252
		BC LOOKOUT 7024	AAA #+14791623[AMF-CAF-XF]
	BC PURE PRIDE 327-8		AAA *16016206
		BC PURE PRIDE 110 825J 327	AAA #*14397465
	BC 327-8 CP BELLE 0-807		AAA 16833528
		BC CHARLIE PRIDE 304-6	AAA *15652515
	BC 607 CP BELLE MF 807		AAA 16382515
		BC 901 DR BELLE MATRIX MF607	AAA 15639663[DDF]
		O C C RANCHER 680R	AAA #*15289755
	O C C ZENITH 620Z		AAA #*17475281
		O C C BLACKCAP 872K	AAA 13858168
	RUDOW'S DEPLORABLE 60		AAA *18619440
		CANE RIDGE PATRIOT 9088J	AAA 13764722
	CRCC REYNA 0566		AAA 15807537[AMF-OSF]
		JAUER ANCHOR 643 3002	AAA 12695449
DAM	DUFF BLACKCAP 527 18503		AAA 20098293
		AR ADVANTAGE 654	AAA 15437936[AMF-CAF-XF]
	DUFF TURNING POINT 250		AAA 17825378
		DUFF ML814G DIXIE ERICA 6500	AAA #+16288198
	RUDOW'S MISS BLACKCAP 527		AAA 18970355
		DCC 814G GUNSMOKE 564	AAA *15247614[AMF]
	RUDOW'S MISS BLACKCAP 958		AAA 16804002
		JAUER 841 ANCHOR 1212 4147	AAA 14055819



FILE NO. Y45783

2

Mark A. McCully
Mark A. McCully
Chief Executive Officer

1374347

AMERICAN ANGUS ASSOCIATION
3201 Frederick Ave., Saint Joseph, Missouri 64506-2997
PHONE: 816-383-5100

Parentage: SNP

Genomic: Angus GS

Parents Qualified

PERFORMANCE PEDIGREE

NAME OF ANIMAL
DUFF ARGENTINO 22510
BREEDER

REGISTRY NO.
AAA *20574453
[AMF-CAF-D2F-DDF-M1F-NHF-OHF-OSF-RDF]

SEX
Bull

BIRTH DATE
9/15/2022
MEMBER CODE
A-148111

FREEZE BRAND
22510

Duff, Kirk Hobart OK
OWNERS
Ojea Rullan, Carlos Nordelta Pcia BS AS Argentina
Ashwood Cattle Company LLC Haskell OK

A-1047881
A-1378892

As of 3/28/2024

	Production EPD								Management EPD					Maternal EPD						Carcass EPD					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	\$EN	CW	Marb	RE	Fat	C	U
I	+3	+2.2	+47	+70	+15	-.05	-.7	-.57	+12	+38	+39	-.19	+67	+7.8	-1	+8	+12	-.8	+19	+7	-.11	+26	+0.17		
n	.27	.48	.40	.35	.24	.24	.36	.33	.29	.21	.21	.16	.19	.12	.22	.24	.30	.32		.33	.28	.28	.24		
d																									
S	+3	+2.2	+66	+98	+17	+21	-.3	+58	+21	+33	+39	-.88	+68	+7.8	-9	+8	+44	-.5	+3	+24	+0.2	+53	+0.23		1
i	.43	.85	.84	.77	.35	.35	.48	.73	.62	.49	.49	.16	.19	.14	.34	.34	.43	.39		.44	.33	.35	.30		1
r																									
e	+7	+1.4	+26	+37	+08	-.08	-.5	-.57	-2	+46	+44	+96	+81	+11.2	+6	+13	-.54	-.9	+30	-.14	+0.4	+1.5	-.006		
D	.26	.45	.36	.31	.23	.23	.35	.29	.24	.15	.15	.17	.19	.12	.24	.27	.29	.31		.31	.27	.27	.23		
a																									
m																									

BC EAGLE EYE 110-7

AAA #*15751696

BC SURVEYOR 680D

AAA +*17629667

SIRE

BC 2266 PRIDES LASS 4132 680

AAA 15652516

BC ROBUST 0807

AAA 18456252

BC PURE PRIDE 327-8

AAA *16016206

BC 327-8 CP BELLE 0-807

AAA 16833528

BC 607 CP BELLE MF 807

AAA 16382515

O C C ZENITH 620Z

AAA +*17475281

RUDOW'S DEPLORABLE 60

AAA *18619440

DAM

CRCC REYNA 0566

AAA 15807537

DUFF BLACKCAP 527 18503

AAA 20098293

DUFF TURNING POINT 250

AAA 17825378

RUDOW'S MISS BLACKCAP 527

AAA 18970355

RUDOW'S MISS BLACKCAP 958

AAA 16804002

	Values		
	\$M \$W	\$F \$G	\$B \$C
I	+49	+50	+58
n	+34	+8	+124
d			
S	+45	+67	+85
i	+49	+18	+155
r			
e	+52	+24	+40
D	+27	+17	+104
a			

Pathfinder + Embryo Transplant * Parents Qualified

	PRODUCTION										MATERNAL				ULTRASOUND										
	CALV EASE		BIRTH WT		WEAN WT		YEAR WT		YEAR HT		YEAR SC		CALV EASE		WEANING		% IMF		RIBEYE		FAT		RUMP FAT		
	HERDS PROG	IND OR AVG	HERDS PROG	CONT RATIO	HERDS PROG	CONT RATIO	HERDS PROG	CONT RATIO	HERDS PROG	RATIO	HERDS PROG	RATIO	HERDS DAUS	PROG AVG	HERDS DAUS	PROG RATIO	HERDS PROG	CONT RATIO	HERDS PROG	CONT RATIO	HERDS PROG	CONT RATIO	HERDS PROG	CONT RATIO	
T H U R S D A Y				3 101		3 96		2 92																	
S T I E	5 11	1.3	24 259	100	15 208	50 101	12 165	53 100	1 1		101	4 69	100	6 11	11 1.0	4 8	8 100	8 17	99	8 17	100	8 17	101	8 17	102
D A Y	1 1	1.0	1 2	94	1 2	14 95	1 2	11 94																	
M O N D A Y			2 5	99	1 2	3 96	1 2	2 98				1 2	100	1 2	2 1.0	1 4	6 96								
	Calving Ease:		1. No Assistance 2. Some Assistance		3. Mechanical Assistance 4. Caesarean Section		5. Abnormal Presentation																		

Calving Ease: 1. No Assistance 2. Some Assistance 3. Mechanical Assistance 4. Caesarean Section 5. Abnormal Presentation



REQUESTED BY:

American Genetics Export Services Hawkins TX

MEMBER CODE N-1374347 FILE NO. Y45783 1

DATE PRINTED 3/28/2024

Mark A. McCully
Mark A. McCully
Chief Executive Officer

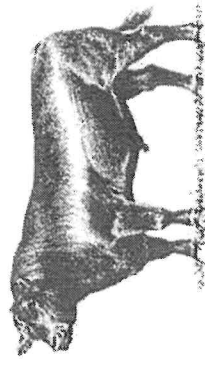
1374347

Official DNA and Genetic Condition Record

American Angus Association

3201 Frederick Ave. Saint Joseph, MO 64506

(816) 383-5100 Fax: (816) 233-9703



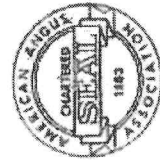
As of: 4/2/2024

Reg Num	Name of Animal	TagTatt	Sex	Birth Date	Sire	Dam	Registration Number	Results
AAA 20574453	Duff Argentino 22510	22510	B	09/15/2022	AAA 18456252	807C-BCAAA 20098293	18503	Qualified
					AAA 18456252	807C-BC		Qualified
						AAA 20098293	18503	Qualified

AM Status	NH Status	CA Status	OS Status	M1 Status	OH Status	D2 Status	DD Status
AMF	NHF	CAF	OSF	M1F	OHF	D2F	DDF

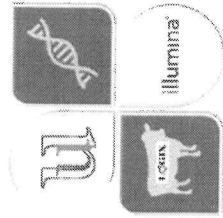
This animal has been tested using SNP technology through Angus Genetics Inc.®(AGI)

We hereby certify that this is a true copy of the DNA Parentage report on file for the bull, Duff Argentino 22510 #AAA 20574453 as reflected on the records of the American Angus Association.



Mark A. McCully

Mark A. McCully, Chief Executive Officer



Unistel Medical Laboratories
Genetic Report
BOVINESNP50-24 v3 BeadChip

DJ Louw
Weltevrede/Blaauwbank/Miquiline Hereford
Angus
Animal Tested: **Duff Argentino**
18932U001
Semen

Description	Mutations	Status	Description	Mutations Tested	Status
Coat colouration	MC1R - e	E+/E+	Meat	Calpain 1 - 316	G/G - Normal breakdown
	MC1R - ED	Ed/Ed	Tenderness	Calpain 1 - 4751	T/T - Normal breakdown
	Dun Dexter Dilution (TYPR1)	+/+		Calpain 1 - 530	A/A - Faster breakdown
	Silver Dilution type 1	+/+		Calpastatin - 282	C/C - Does not inhibit Calpain
	Silver Dilution type 2	+/+		Calpastatin - 2870	G/G - Does not inhibit Calpain
	Myostatin C313Y	Clear		Calpastatin - 2959	A/A - Does not inhibit Calpain
Myostatin Status	Myostatin E226X	Clear	Milk status	Beta Casein - 245	A2/A2
	Myostatin E291X	Clear		Beta Casein - 411	B/B
	Myostatin nt419	Clear		Kappa Casein - 352	A/A
	Myostatin nt821	Clear		Kappa Casein - 467	A/A
	Myostatin Q204X	Clear		Kappa Casein - 470	A/A
	Myostatin D182N	Clear		Kappa Casein - 506	B/B
	Myostatin F94L	Clear		Kappa Casein - 526	A/A
	Myostatin S105C	Clear			
	E7 mutation	Clear			
	E13 mutation	Clear	Milk quality	Growth Hormone F279Y	Increased milk, casein & lactose yield; decreased protein & fat yield
POMPE Status	E18 mutation	Clear		Growth Hormone 2141	Decreased milk protein & fat yield
				Growth Hormone 2291	Normal milk fat yield, fat & protein %
Heat Tolerance	SLICK	No added resistance		ABCG2 - protein yield milk	Normal fat, protein & milk yield; normal fat & protein %
Eye Disorders	Pinkeye resistance	Reduced risk 8-13%		Acy/CoA - milk fat percentage	Normal fat, protein & milk yield. Normal fat & protein %.
Bone Disorder	Osteopetrosis	Clear		Trimethylaminuria excess in milk	Clear
Breed mutations				Yellow milk fat	Normal yellow fat
	Alpha Mannosidosis 961	Clear			
	Neuropathic hydrocephalus	Clear	Hornedness	Polled (Celtic and Friesian)	Homozygous Polled
	Developmental Duplication	Clear			
	Mulefoot (P1647L)	Clear			

Disclaimer: Unistel reports these results on the premise that the biological samples received are from the individuals nominated by the owner/breeder/requester. This certificate replaces all previous issued certificates. While every effort is made to prevent incorrect results, Unistel Medical Laboratories does not accept any responsibility for any losses that may occur as a result of human or technical error. Should gross negligence be proven, the claim shall not exceed the value of the contract.

DNA Report

Unistel Medical Laboratories (Pty) Ltd

An Associated Company of The Unistel Group

Tel: Main Switchboard - 021 007 5617
Email: info@unistelmedical.co.za

Test Method :	Fragment Analysis (STR)
Batch No :	18932U
Sample # :	18932U001
Ownername :	DJ Louw

Tag No :	Duff Argentino
Animal Name :	Duff Argentino
Microchip # :	
Animal Species :	CATTLE
Animal Breed :	ANGUS
Registration Id :	
Birth Date :	1-01-01
Gender :	Male
DNA Ref. No :	
Tissue Type	Semen Straw

Marker	Allele1	Allele2
BM1818	266	270
BM1824	182	188
BM2113	135	135
CSRM60	92	100
CSSM66	197	197
ETH10	217	221
ETH225	144	148
ETH3	117	117
ILSTS006	288	292
INRA23	206	208
SPS115	248	254
TGLA122	143	143
TGLA126	117	117
TGLA227	83	89
TGLA53	160	176

Created date: 16-Jul-2024 13:02

Received date: 16-Jul-2024 12:52

Report date: 22-Jul-2024 10:35

DNA profile analysed to ISAG specification(2021/2022)

Page 1

Unistel report these results on the premise that the biological samples received are from the individuals nominated by the owner/ breeder/ requestee. This Certificate replaces all previously issued certificates.

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CHARNÉ ROSSOUW
DIVISION MANAGER