RS BALDRIDGE 38 SPECIAL ^{PV} USA18229487

DOB: 13/01/2015 **Registration Status:** HBR **Mating Type:** Natural **Genetic Status:** AMF,CAF,DDF,NHF,MAF,OSF,RGF

BASIN FRANCHISE P142 #
EF COMPLEMENT 8088 ^{PV}
EF EVERELDA ENTENSE 6117 #
Sire: USA17082311 EF COMMANDO 1366 ^{PV}
B/R AMBUSH 28 #
RIVERBEND YOUNG LUCY W1470 #
RIVERBEND YOUNG LUCY T1080 #

SITZ UPWARD 307R ^{SV}
STYLES UPGRADE J59 #
PLAINVIEW LASSIE 71B #
Dam: USA17149410 BALDRIDGE ISABEL Y69 #
BALDRIDGE KABOOM K243 KCF #
BALDRIDGE ISABEL T935 #
BALDRIDGE ISABEL P4527 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+7.2	+2.7	-5.0	+2.5	+62	+107	+141	+110	+21	+2.4	-5.3
ACC	91%	79%	99%	99%	98%	98%	98%	96%	95%	98%	63%
Perc	11	55	40	19	8	11	11	35	19	39	33

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+75	+7.3	+1.3	-0.9	-0.2	+2.8	+0.27	+16	+0.62	+0.78	+0.84
ACC	92%	90%	90%	89%	84%	90%	75%	98%	99%	99%	94%
Perc	29	40	21	60	84	35	56	70	10	11	5

Selection Indexes

$A	$A-L
$244	$414
12	8

Traits Observed: Genomics

Statistics: Number of Herds: 117, Prog Analysed: 1968, Genomic Prog: 1051

RS BALDRIDGE COMPASS C041 ^{SV} USA18229488

DOB: 14/01/2015 **Registration Status:** HBR **Mating Type:** ET **Genetic Status:** AMF,CAF,DDF,NHF,MHF,OHF,OSF

BASIN FRANCHISE P142 #
EF COMPLEMENT 8088 ^{PV}
EF EVERELDA ENTENSE 6117 #
Sire: USA17082311 EF COMMANDO 1366 ^{PV}
B/R AMBUSH 28 #
RIVERBEND YOUNG LUCY W1470 #
RIVERBEND YOUNG LUCY T1080 #

SITZ UPWARD 307R ^{SV}
STYLES UPGRADE J59 #
PLAINVIEW LASSIE 71B #
Dam: USA17149410 BALDRIDGE ISABEL Y69 #
BALDRIDGE KABOOM K243 KCF #
BALDRIDGE ISABEL T935 #
BALDRIDGE ISABEL P4527 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+6.8	+3.3	-3.4	+3.0	+59	+104	+133	+88	+30	+1.7	-3.9
ACC	92%	81%	99%	98%	98%	98%	98%	96%	95%	97%	65%
Perc	13	49	66	28	16	17	21	71	1	66	68

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+69	+8.0	+0.4	+0.0	+0.2	+3.1	+0.54	+17	+0.60	+0.66	+0.80
ACC	93%	91%	91%	91%	87%	91%	77%	97%	98%	98%	95%
Perc	46	32	39	43	66	29	82	65	9	3	3

Selection Indexes

$A	$A-L
$252	$402
8	13

Traits Observed: Genomics

Statistics: Number of Herds: 84, Prog Analysed: 1100, Genomic Prog: 699

RS BRIDGEWATER QUANTUM Q007 ^{PV} BONQ007

DOB: 23/02/2019 **Registration Status:** HBR **Mating Type:** AI **Genetic Status:** AMF,CAF,DDF,NHF,DWF,MAF,MHF,OHF,OSF,

C R A BEXTOR 872 5205 608 #
G A R PROPHET ^{SV}
G A R OBJECTIVE 1885 #
Sire: QMUM13 CLUNES CROSSING DUSTY M13 ^{PV}
TE MANIA BERKLEY B1 ^{PV}
CLUNES CROSSING GLORIOUS G1 ^{SV}
TE MANIA LOWAN A1 #

TC TOTAL 410 #
LAWSONS NOVAK E313 ^{SV}
LAWSONS PREDESTINED B770 ^{SV}
Dam: HIOL28 AYRVALE LILYFIELD L28 ^{PV}
TUWHARETOA REGENT D145 ^{PV}
AYRVALE HEIRLOOM H19 ^{PV}
AYRVALE EDGE E5 ^{PV}

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	-3.0	-3.8	-5.2	+5.7	+65	+101	+133	+106	+21	+0.4	-5.8
ACC	69%	62%	93%	92%	91%	90%	91%	86%	78%	83%	56%
Perc	86	95	37	85	5	24	20	42	21	95	23

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+89	+7.2	+0.0	-1.9	+0.2	+2.1	+0.11	+22	+1.02	+0.88	+1.08
ACC	89%	89%	88%	89%	79%	91%	84%	86%	79%	80%	77%
Perc	6	41	48	77	66	53	38	41	82	27	65

Selection Indexes

$A	$A-L
$227	$361
25	41

Traits Observed: BWT, 200WT, 400WT, 600WT, Scan(EMA, Rib, Rump, IMF), Genomics

Statistics: Number of Herds: 6, Prog Analysed: 50, Genomic Prog: 46

RS — EF PRIME QUARTER 5369 PV — USA18232879

DOB: 26/09/2015 | Registration Status: **HBR** | Mating Type: **Natural** | Genetic Status: **AMF,CAF,DDF,NHF,MHF,OHF,OSF**

CONNEALY CONSENSUS #
CONNEALY CONSENSUS 7229 SV
BLUE LILLY OF CONANGA 16 #
Sire: **USA17171587 V A R GENERATION 2100** PV
CONNEALY ONWARD #
SANDPOINT BLACKBIRD 8809 #
RIVERBEND BLACKBIRD 4301 #

C R A BEXTOR 872 5205 608 #
G A R PROPHET SV
G A R OBJECTIVE 1885 #
Dam: **USA17756888 EF RITA 3422** #
G A R PREDESTINED #
EF RITA 7328 #
A PLUS RITA 5H11 8009 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+2.9	+7.4	-7.5	+3.1	+58	+95	+115	+67	+12	+1.9	-3.8
ACC	79%	68%	96%	95%	94%	95%	94%	89%	86%	93%	57%
Perc	46	10	11	30	18	40	58	92	86	58	70

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+69	+5.9	+0.8	+0.1	-0.1	+3.1	+0.39	+36	+0.98	+0.86	+1.00
ACC	86%	85%	84%	83%	78%	86%	70%	88%	85%	85%	72%
Perc	46	57	30	42	81	29	69	6	76	23	39

Selection Indexes

$A	$A-L
$243	**$372**
12	32

Traits Observed: Genomics

Statistics: Number of Herds: 12, Prog Analysed: 150, Genomic Prog: 74

RS — EXAR MONUMENTAL 6056B PV — USA18379347

DOB: 11/01/2016 | Registration Status: **HBR** | Mating Type: **Natural** | Genetic Status: **AMF,CAF,DDF,NHF,DWF,MHF,OHF,OSF**

CONNEALY FINAL PRODUCT PV
VARILEK PRODUCT 2010 04 #
VARILEK PEARL 0006 014 #
Sire: **USA17950219 3F EPIC 4631** #
EF COMPLEMENT 8088 PV
ZEBO QUEEN 1072 #
EXG BLACKCAP 6247 PPC #

MYTTY IN FOCUS #
A A R TEN X 7008 S A SV
A A R LADY KELTON 5551 #
Dam: **USA17799315 FWY 7008 OF C085 4029** #
SUMMITCREST COMPLETE 1P55 #
FWY RITA C085 #
BOHI RITA 8291 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+6.6	+3.6	-7.2	+2.4	+58	+110	+140	+126	+16	+2.9	-2.0
ACC	86%	72%	98%	98%	97%	97%	97%	95%	91%	95%	54%
Perc	14	45	13	18	19	8	12	16	57	24	94

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+90	+9.2	-1.9	-3.6	+0.5	+4.0	+0.42	+22	+1.18	+1.08	+0.86
ACC	90%	88%	88%	87%	82%	89%	68%	93%	98%	98%	79%
Perc	5	21	87	93	47	14	72	45	96	74	7

Selection Indexes

$A	$A-L
$217	**$391**
35	19

Traits Observed: Genomics

Statistics: Number of Herds: 29, Prog Analysed: 412, Genomic Prog: 268

RS — FERGUSON TRAILBLAZER 239E SV — USA18996007

DOB: 18/02/2017 | Registration Status: **HBR** | Mating Type: **Natural** | Genetic Status: **AMF,CAF,DDF,NHF,MHF,OHF,OSF**

MYTTY IN FOCUS #
A A R TEN X 7008 S A SV
A A R LADY KELTON 5551 #
Sire: **USA17262835 V A R DISCOVERY 2240** PV
SITZ UPWARD 307R SV
DEER VALLEY RITA 0308 #
G A R OBJECTIVE 2345 #

O C C EMBLAZON 854E #
LD EMBLAZON 999 PV
SH FOREVER LADY 3124 5118 #
Dam: **USA17717153 MOLITOR999 BARBELLA 940-3012** #
S A V FINAL ANSWER 0035 #
MOLITOR FA BARBELLA 389-940 #
MOLITOR5321 BARBELLA9027 389 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+2.2	+6.9	-7.3	+3.4	+72	+130	+174	+156	+16	+2.0	-6.5
ACC	77%	63%	98%	97%	95%	95%	94%	88%	83%	93%	53%
Perc	53	13	12	36	1	1	1	2	61	54	13

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+98	+4.0	+1.7	+0.6	-1.2	+5.0	+0.46	+38	+1.16	+1.18	+0.92
ACC	85%	85%	84%	82%	78%	86%	67%	88%	84%	84%	66%
Perc	2	79	15	33	99	5	75	5	95	89	17

Selection Indexes

$A	$A-L
$277	**$491**
2	1

Traits Observed: Genomics

Statistics: Number of Herds: 31, Prog Analysed: 344, Genomic Prog: 220

RS — K C F BENNETT THEROCK A473 ^PV — USA17849954

DOB: 08/10/2013 Registration Status: **HBR** Mating Type: **Natural** Genetic Status: **AMF,CAF,DDF,NHF**

NICHOLS EXTRA H6 #	RITO 1I2 OF 2536 RITO 6I6 #
NICHOLS EXTRA K205 #	GAR-EGL PROTEGE #
NICHOLS BLACK HEIRESS F346 #	L B 6807 ISABEL 339 #
Sire: USA16430862 K C F BENNETT SOUTHSIDE ^PV	**Dam: USA16430913 K C F MISS PROTEGE W148 #**
BON VIEW NEW DESIGN 208 ^SV	C A FUTURE DIRECTION 5321 ^SV
K C F MISS 208 S11 #	BREELA OF CONANGA 3991 #
K C F MISS 338 P14 #	BREESHA OF CONANGA 1251 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	-0.8	+3.5	-8.7	+4.7	+64	+111	+135	+139	+16	+3.0	-6.0
ACC	79%	66%	97%	96%	94%	94%	94%	90%	90%	91%	51%
Perc	76	46	5	67	6	8	17	7	60	21	20

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+85	+3.7	-3.0	-5.7	+0.1	+2.8	+0.13	+18	+1.32	+1.28	+1.08
ACC	87%	85%	84%	83%	78%	86%	66%	86%	96%	96%	39%
Perc	10	81	96	99	72	35	40	61	99	96	65

Selection Indexes

$A	$A-L
$204	**$380**
51	27

Traits Observed: Genomics

Statistics: Number of Herds: 19, Prog Analysed: 198, Genomic Prog: 106

RS — LD CAPITALIST 316 ^PV — USA17666102

DOB: 26/01/2013 Registration Status: **HBR** Mating Type: **Natural** Genetic Status: **AMF,CAF,DDF,NHF,DWF,MAF,MHF,OHF,OSF,**

SITZ TRAVELER 8180 #	G A R PRECISION 1680 #
S A V FINAL ANSWER 0035 #	C A FUTURE DIRECTION 5321 ^SV
S A V EMULOUS 8145 #	C A MISS POWER FIX 308 #
Sire: USA16752262 CONNEALY CAPITALIST 028 #	**Dam: USA14407230 LD DIXIE ERICA 2053 #**
C R A BEXTOR 872 5205 608 #	LD ROYCE ONAROLL 810 #
PRIDES PITA OF CONANGA 8821 #	LD DIXIE ERICA OAR 0853 #
PRIDES TRAV OF CONANGA 6499 #	DIXIE ERICA OF R R 8553 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+9.6	+9.7	-3.5	+2.0	+50	+89	+108	+85	+12	+1.0	-3.3
ACC	98%	90%	99%	99%	99%	99%	99%	98%	98%	99%	86%
Perc	2	2	65	13	53	59	74	76	85	87	80

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+74	+8.5	+1.3	+1.4	+0.4	+1.2	+0.42	+8	+0.88	+0.90	+0.90
ACC	97%	96%	97%	96%	95%	96%	89%	99%	99%	99%	97%
Perc	30	27	21	21	53	78	72	92	57	32	13

Selection Indexes

$A	$A-L
$211	**$361**
42	42

Traits Observed: Genomics

Statistics: Number of Herds: 222, Prog Analysed: 3638, Genomic Prog: 1736

RS — LT REVERED ^SV — USA19548516

DOB: 17/02/2019 Registration Status: **HBR** Mating Type: **Natural** Genetic Status: **AMF,CAF,DDF,NHF,DWF,MAF,MHF,OHF,OSF,**

BASIN RAINMAKER P175 #	VISION UNANIMOUS 1418 ^PV
BASIN RAINMAKER 2704 #	S FOUNDATION 514 ^PV
BASIN ERICA 7520 BV #	S LADY ANN 8384 #
Sire: USA17913751 BASIN RAINMAKER 4404 ^PV	**Dam: USA18953479 LT ASHLEY 7078 #**
BASIN PAYWEIGHT 107S #	K C F BENNETT TOTAL #
BASIN JOY 1036 #	LT ASHLEY 8263 #
BASIN JOY 566T #	LT FOREVER LADY 6124 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+7.3	+10.2	-6.0	+3.4	+60	+113	+132	+93	+22	+2.7	-5.5
ACC	70%	52%	95%	93%	89%	87%	86%	83%	79%	82%	39%
Perc	10	1	25	36	14	6	22	63	13	29	29

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+85	+5.5	+1.3	+0.5	+0.5	+1.9	+0.30	+41	+0.92	+0.90	+1.12
ACC	80%	77%	74%	72%	67%	80%	59%	73%	75%	74%	53%
Perc	10	62	21	34	47	59	60	3	65	32	76

Selection Indexes

$A	$A-L
$272	**$446**
2	2

Traits Observed: Genomics

Statistics: Number of Herds: 9, Prog Analysed: 82, Genomic Prog: 20

RS — MOGCK ENTICE ᴿⱽ — USA18952921

DOB: 31/01/2017 **Registration Status:** HBR **Mating Type:** Natural **Genetic Status:** AMF,CAF,DDF,NHF,OHF,OSF

SYDGEN GOOGOL #	MOGCK SURE SHOT #
SYDGEN EXCEED 3223 ᴾⱽ	MOGCK SURE SHOT 253 #
SYDGEN FOREVER LADY 1255 #	MOGCK MISS 61 #
Sire: USA18170041 SYDGEN ENHANCE ˢⱽ	**Dam:** USA18334720 MOGCK ERICA 2255 #
SYDGEN LIBERTY GA 8627 #	CONNEALY 5050 611B #
SYDGEN RITA 2618 #	MOGCK ERICA 2162 #
FOX RUN RITA 9308 #	MOGCK ERICA 08 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+2.0	+4.3	-7.7	+5.1	+71	+130	+174	+153	+22	+4.6	-3.2
ACC	79%	65%	98%	97%	96%	96%	96%	89%	84%	94%	49%
Perc	55	37	9	75	1	1	1	3	16	3	81

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+94	+8.1	-3.5	-5.0	+0.5	+1.8	-0.50	+38	+0.70	+0.94	+0.92
ACC	86%	86%	84%	82%	77%	86%	65%	93%	99%	98%	73%
Perc	3	31	98	98	47	62	3	5	21	41	17

Selection Indexes

$A	$A-L
$227	$420
25	7

Traits Observed: BWT, Genomics

Statistics: Number of Herds: 31, Prog Analysed: 458, Genomic Prog: 322

RS — RR ENDEAVOR 9005 ᴾⱽ — USA19551197

DOB: 14/01/2019 **Registration Status:** HBR **Mating Type:** Natural **Genetic Status:** AMF,CAF,DDF,NHF,DWF,MAF,MHF,OHF,OSF,

S A V FINAL ANSWER 0035 #	PA POWER TOOL 9108 ˢⱽ
CONNEALY CAPITALIST 028 #	RAVEN POWERBALL 53 ᴾⱽ
PRIDES PITA OF CONANGA 8821 #	RAVEN EMMA E 4241 #
Sire: USA17666102 LD CAPITALIST 316 ᴾⱽ	**Dam:** USA19014827 ROLLIN ROCK BLACKBIRD 7059 #
C A FUTURE DIRECTION 5321 ˢⱽ	E&B 878 NEW DESIGN 435
LD DIXIE ERICA 2053 #	ROLLIN ROCK BLACKBIRD 9080 #
LD DIXIE ERICA OAR 0853 #	ROLLIN ROCK BLACKBIRD 7225 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+11.2	+10.1	-9.6	-0.4	+65	+123	+155	+120	+19	+3.3	-2.8
ACC	77%	64%	97%	95%	91%	92%	88%	86%	81%	83%	53%
Perc	1	1	2	1	4	1	3	22	31	15	87

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+95	+6.6	+0.4	-0.9	-0.7	+3.3	+0.83	+6	+0.94	+1.06	+0.98
ACC	83%	82%	81%	79%	74%	83%	66%	84%	71%	71%	66%
Perc	3	48	39	60	96	25	95	94	69	70	33

Selection Indexes

$A	$A-L
$243	$432
12	4

Traits Observed: Genomics

Statistics: Number of Herds: 15, Prog Analysed: 172, Genomic Prog: 48

RS — SYDGEN BONUS 8084 ᴾⱽ — USA19169335

DOB: 13/01/2018 **Registration Status:** HBR **Mating Type:** Natural **Genetic Status:** AMF,CAF,DDF,NHF,DWF,MAF,MHF,OHF,OSF,

D A A R INFINITY 313 #	C R A BEXTOR 872 5205 608 #
SYDGEN GOOGOL #	G A R PROPHET ˢⱽ
SYDGEN FOREVER LADY 4087 #	G A R OBJECTIVE 1885 #
Sire: USA17501893 SYDGEN EXCEED 3223 ᴾⱽ	**Dam:** USA18104837 SYDGEN BLACKCAP 5371 #
SYDGEN 928 DESTINATION 5420 #	G A R NEW DESIGN 5050 #
SYDGEN FOREVER LADY 1255 #	H P C A 5050 212 #
SYDGEN FOREVER LADY 8114 #	G A R HPCA OBJECTIVE A28 #

Mid January 2024 TransTasman Angus Cattle Evaluation

TACE	CE Dir	CE Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC
EBV	+9.8	+2.9	-6.5	-0.1	+45	+84	+107	+78	+14	+1.7	-3.4
ACC	82%	66%	98%	98%	97%	97%	96%	91%	89%	96%	52%
Perc	2	53	20	2	76	72	76	84	73	66	78

TACE	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg
EBV	+74	+14.0	-2.0	-2.1	+1.0	+4.6	+0.49	+47	+0.88	+1.00	+1.02
ACC	89%	89%	87%	87%	80%	87%	68%	95%	95%	95%	92%
Perc	31	2	88	80	19	7	78	1	57	56	46

Selection Indexes

$A	$A-L
$230	$365
22	38

Traits Observed: Genomics

Statistics: Number of Herds: 28, Prog Analysed: 624, Genomic Prog: 346

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>
> PV : both parents have been verified by DNA.
>
> SV : the sire has been verified by DNA.
>
> DV : the dam has been verified by DNA.
>
> # : DNA verification has not been conducted.
>
> E : DNA verification has identified that the sire and/or dam may possibly be incorrect, but this cannot be confirmed conclusively.

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I, the buyer of animals with the following idents...

....

from member...(name) do not consent to Angus

Australia using my name, address and phone number for the purposes of effecting a change of registration

of the animals I have mentioned above that I have purchased, maintaining its database and disclosing that

information to its members on its website.

Name: .... Signature: ....

Date: ....

Please forward this completed consent form to Angus Australia, 86 Glen Innes Road, Armidale NSW 2350.

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If you have any questions or queries regarding any of the above, please contact Angus Australia on (02) 6773 4600 or email office@angusaustralia.com.au

RECESSIVE GENETIC CONDITIONS

This is information for bull buyers about the recessive genetic conditions, Arthrogryposis Multiplex (AM), Hydrocephalus (NH), Contractural Arachnodactyly (CA) and Developmental Duplications (DD).

Putting undesirable Genetic Recessive Conditions in perspective

All animals, including humans, carry single copies (alleles) of undesirable or "broken" genes. In single copy form, these undesirable alleles usually cause no harm to the individual.

But when animals carry 2 copies of certain undesirable or "broken" alleles it often results in bad consequences. Advances in genomics have facilitated the development of accurate diagnostic tests to enable the identification and management of numerous undesirable or "broken" genes.

Angus Australia is proactive in providing its members and their clients with relevant tools and information to assist them in the management of known undesirable genes and our members are leading the industry in their use of this technology.

What are AM, NH, CA and DD?

AM, NH, CA and DD are all recessive conditions caused by "broken" alleles within the DNA of individual animals. When a calf inherits 2 copies of the AM or NH alleles their development is so adversely affected that they will be still-born.

In other cases, such as CA and DD, calves carrying 2 copies of the broken allele may reach full-term. In such cases the animal may either appear relatively normal, or show physical symptoms that affect their health and/or performance.

How are the conditions inherited?

Research in the U.S. and Australia indicates that AM, NH, CA and DD are simply inherited recessive conditions. This means that a single gene (or pair of alleles) controls the condition.

For this mode of inheritance two copies of the undesirable allele need to be present before the condition is seen; in which case you may get an abnormal calf. A more common example of a trait with a simple recessive pattern of inheritance is black and red coat colour.

Animals with only one copy of the undesirable allele (and one copy of the normal form of the allele) appear normal and are known as "carriers".

What happens when carriers are mated to other animals?

Carriers, will on average, pass the undesirable allele to a random half (50 %) of their progeny.

When a carrier bull and carrier cow is mated, there is a 25% chance that the resultant calf will inherit two normal alleles, a 50% chance that the mating will result in a carrier (i.e. with just 1 copy of the undesirable allele, and a 25% chance that the calf will inherit two copies of the undesirable gene.

If animals tested free of the undesirable gene are mated to carrier animals the condition will not be expressed at all. All calves will appear normal, but approximately half (50%) could be expected to be carriers.

How is the genetic status of animals reported?

DNA-based diagnostic tests have been developed which can be used to determine whether an individual animal is either a carrier or free of the alleles resulting in AM, NH, CA or DD.

Angus Australia uses advanced software to calculate the probability of (untested) animals to being carriers of AM, NH, CA or DD. The software uses the test results of any relatives in the calculations and the probabilities may change as new results for additional animals become available.

The genetic status of animals is being reported using five categories:

AMF	Tested AM free
AMFU	Based on Pedigree AM free - Animal has not been tested
AM_%	_% probability the animal is an AM carrier
AMC	Tested AM-Carrier
AMA	AM-Affected

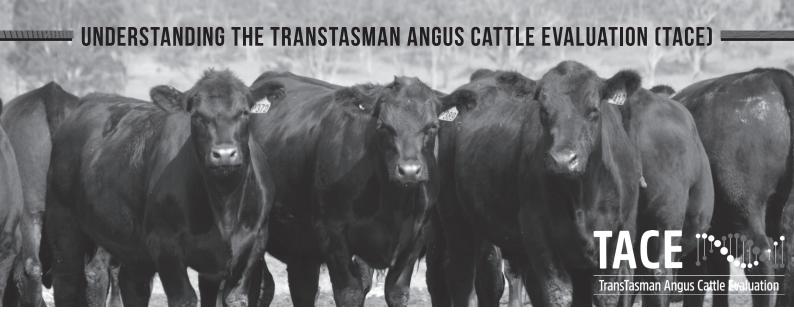For NH, CA and DD, simply replace AM in the above table with NH, CA or DD.

Registration certificates and the Angus Australia web-database display these codes. This information is displayed on the animal details page and can be accessed by conducting an "Database Search" from the Angus Australia website or looking up individual animals listed in a sale catalogue.

Implications for Commercial Producers

Your decision on the importance of the genetic condition status of replacement bulls should depend on the genetics of your cow herd (which bulls you previously used) and whether some female progeny will be retained or sold as breeders.

Most Angus breeders are proactive and transparent in managing known genetic conditions, endeavouring to provide the best information available. The greatest risk to the commercial sector from undesirable genetic recessive conditions comes from unregistered bulls with unknown genetic background. The genetic condition testing that Angus Australia seedstock producers are investing in provides buyers of registered Angus bulls with unmatched quality assurance.

For further information contact Angus Australia's Breed Development & Extension Manager on (02) 6773 4618.

TACE
TransTasman Angus Cattle Evaluation

What is the TransTasman Angus Cattle Evaluation?

The TransTasman Angus Cattle Evaluation is the genetic evaluation program adopted by Angus Australia for Angus and Angus influenced beef cattle. The TransTasman Angus Cattle Evaluation uses Best Linear Unbiased Prediction (BLUP) technology to produce Estimated Breeding Values (EBVs) of recorded cattle for a range of important production traits (e.g. weight, carcase, fertility).

The TransTasman Angus Cattle Evaluation is an international genetic evaluation and includes pedigree, performance and genomic information from the Angus Australia and Angus New Zealand databases, along with selected information from the American and Canadian Angus Associations.

The TransTasman Angus Cattle Evaluation utilises a range of genetic evaluation software, including the internationally recognised BLUPF90 family of programs, and BREEDPLAN® beef genetic evaluation analytical software, as developed by the Animal Genetics and Breeding Unit (AGBU), a joint institute of NSW Agriculture and the University of New England, and Meat and Livestock Australia Limited (MLA).

What is an EBV?

An animal's breeding value can be defined as its genetic merit for each trait. While it is not possible to determine an animal's true breeding value, it is possible to estimate it. These estimates of an animal's true breeding value are called EBVs (Estimated Breeding Values).

EBVs are expressed as the difference between an individual animal's genetics and a historical genetic level (i.e. group of animals) within the TACE genetic evaluation, and are reported in the units in which the measurements are taken.

Using EBVs to Compare the Genetics of Two Animals

TACE EBVs can be used to estimate the expected difference in the genetics of two animals, with the expected difference equating to half the difference in the EBVs of the animals, all other things being equal (e.g. they are joined to the same animal/s).

For example, a bull with a 200 Day Growth EBV of +60 would be expected to produce progeny that are, on average, 10 kg heavier at 200 days of age than a bull with a 200 Day Growth EBV of +40 kg (i.e. 20 kg difference between the sire's EBVs, then halved as the sire only contributes half the genetics).

Or similarly, a bull with an IMF EBV of +3.0 would be expected to produce progeny with on average, 1% more intramuscular fat in a 400 kg carcase than a bull with a IMF EBV of +1.0 (i.e. 2% difference between the sire's EBVs, then halved as the sire only contributes half the genetics).

Using EBVs to Benchmark an Animal's Genetics with the Breed

EBVs can also be used to benchmark an animal's genetics relative to the genetics of other Angus or Angus infused animals recorded with Angus Australia.

To benchmark an animal's genetics relative to other Angus animals, an animal's EBV can be compared to the EBV reference tables, which provide:

- the breed average EBV
- the percentile bands table

The current breed average EBV is listed on the bottom of each page in this publication, while the current EBV reference tables are included at the end of these introductory notes. For easy reference, the percentile band in which an animal's EBV ranks is also published in association with the EBV.

Considering Accuracy

An accuracy value is published with each EBV, and is usually displayed as a percentage value immediately below the EBV.

The accuracy value provides an indication of the reliability of the EBV in estimating the animal's genetics (or true breeding value), and is an indication of the amount of information that has been used in the calculation of the EBV.

EBVs with accuracy values below 50% should be considered as preliminary or of low accuracy, 50-74% as of medium accuracy, 75-90% of medium to high accuracy, and 90% or greater as high accuracy.

Description of TACE EBVs

EBVs are calculated for a range of traits within TACE, covering calving ease, growth, fertility, maternal performance, carcase merit, feed efficiency and structural soundness. A description of each EBV included in this publication is provided on the following page.

UNDERSTANDING ESTIMATED BREEDING VALUES (EBVS)

Category	Trait	Units	Description	Interpretation
Calving Ease	CEDir	%	Genetic differences in the ability of a sire's calves to be born unassisted from 2 year old heifers.	Higher EBVs indicate fewer calving difficulties in 2 year old heifers.
	CEDtrs	%	Genetic differences in the ability of a sire's daughters to calve unassisted at 2 years of age.	Higher EBVs indicate fewer calving difficulties in 2 year old heifers.
	GL	days	Genetic differences between animals in the length of time from the date of conception to the birth of the calf.	Lower EBVs indicate shorter gestation length.
	BW	kg	Genetic differences between animals in calf weight at birth.	Lower EBVs indicate lighter birth weight.
Growth	200 Day	kg	Genetic differences between animals in live weight at 200 days of age due to genetics for growth.	Higher EBVs indicate heavier live weight.
	400 Day	kg	Genetic differences between animals in live weight at 400 days of age.	Higher EBVs indicate heavier live weight.
	600 Day	kg	Genetic differences between animals in live weight at 600 days of age.	Higher EBVs indicate heavier live weight.
	MCW	kg	Genetic differences between animals in live weight of cows at 5 years of age.	Higher EBVs indicate heavier mature weight.
	Milk	kg	Genetic differences between animals in live weight at 200 days of age due to the maternal contribution of its dam.	Higher EBVs indicate heavier live weight.
Fertility	DtC	days	Genetic differences between animals in the time from the start of the joining period (i.e. when the female is introduced to a bull) until subsequent calving.	Lower EBVs indicate shorter time to calving.
	SS	cm	Genetic differences between animals in scrotal circumference at 400 days of age.	Higher EBVs indicate larger scrotal circumference.
Carcase	CWT	kg	Genetic differences between animals in hot standard carcase weight at 750 days of age.	Higher EBVs indicate heavier carcase weight.
	EMA	cm^2	Genetic differences between animals in eye muscle area at the 12/13th rib site in a 400 kg carcase.	Higher EBVs indicate larger eye muscle area.
	Rib Fat	mm	Genetic differences between animals in fat depth at the 12/13th rib site in a 400 kg carcase.	Higher EBVs indicate more fat.
	P8 Fat	mm	Genetic differences between animals in fat depth at the P8 rump site in a 400 kg carcase.	Higher EBVs indicate more fat.
	RBY	%	Genetic differences between animals in boned out saleable meat from a 400 kg carcase.	Higher EBVs indicate higher yield.
	IMF	%	Genetic differences between animals in intramuscular fat (marbling) at the 12/13th rib site in a 400 kg carcase.	Higher EBVs indicate more intramuscular fat.
Feed/Temp.	NFI-F	kg/day	Genetic differences between animals in feed intake at a standard weight and rate of weight gain when animals are in a feedlot finishing phase.	Lower EBVs indicate more feed efficiency.
	Doc	%	Genetic differences between animals in temperament.	Higher EBVs indicate better temperament.
Structure	Foot Angle	score	Genetic differences in foot angle (strength of pastern, depth of heel).	Lower EBVs indicate more desirable foot angle.
	Claw Set	score	Genetic differences in claw set structure (shape and evenness of claws).	Lower EBVs indicate more desirable claw structure.
Selection Index	$A	$	Genetic differences between animals in net profitability per cow joined in a typical commercial self replacing herd using Angus bulls. This selection index is not specific to a particular market end-point, but identifies animals that will improve overall net profitability in the majority of commercial, self replacing, grass and grain finishing beef production systems.	Higher selection indexes indicate greater profitability.
	$A-L	$	Genetic differences between animals in net profitability per cow joined in a typical commercial self replacing herd using Angus bulls. This selection index is not specific to a particular market end-point, but identifies animals that will improve overall net profitability in the majority of commercial, self replacing, grass and grain finishing beef production systems. The $A-L index is similar to the $A index but is modelled on a production system where feed is surplus to requirements for the majority of the year, or the cost of supplying additional feed when animal feed requirements increase is low. While the $A aims to maintain mature cow weight, the $A-L does not aim to limit the increase in mature cow weight as there is minimal cost incurred if the feed maintenance requirements of the female breeding herd increase as a result of selection decisions.	Higher selection indexes indicate greater profitability.

BRINGING YOUR NEW BULL HOME

WHEN PURCHASING A BULL, CARE AND HANDLING AFTER THE SALE CAN BE AS IMPORTANT AS THE PURCHASE ITSELF. LOOKING AFTER YOUR BULL WELL DURING THE INITIAL STAGES OF HIS WORKING LIFE MAY ENSURE LONGEVITY AND SUCCESS WITHIN YOUR BREEDING HERD.

PURCHASE

Temperament is an important characteristic when selecting a bull. Selecting a bull that may be flighty or aggressive will make life difficult for you each time he is handled. Note which bulls continually push to the centre of a mob, run around, or are unreasonably nervous, aggressive or excited.

At the sale, note any changes of temperament by individual bulls. Some bulls that are quiet in the yard or paddock may not like the pressure and noise of the auction and become excited. Others that were excited beforehand get much worse in the sale ring and can really perform. Use the yard or paddock behaviour as a guide, rather than the temperament shown in the ring.

DELIVERY

When transporting your new bull insurance against loss in transit, accidental loss of use, or infertility, is sometimes provided by vendors. Where it is not, it is worth considering. After purchase tips:

- When purchasing, ask which health treatments he has received.
- Treat and handle him quietly at all times - no dogs, no buzzers. Talk to him and give him time and room to make up his mind.
- With more than one bull from different origins, you must be able to separate them on the truck.
- Make sure that the truck floor is covered to prevent bulls from slipping. Sand, sawdust or a floor grid will prevent bulls from being damaged by going down in transit.
- If you can arrange it, put a few quiet cows or steers on the truck with the bull. Let them down into a yard with the bulls for a while before loading and after unloading.
- Unload and reload during the trip as little as possible If necessary, rest with water and feed. Treat bulls kindly your impatience or nervousness is easily transmitted to an animal unfamiliar to you and unsure of his environment.

IF YOU USE A PROFESSIONAL CARRIER:

- Make sure the carrier knows which bulls can be mixed together.
- Discuss with the carrier, resting procedures for long trips, expected delivery time, truck condition and quiet handling.
- Give ear tag and brand numbers to the carrier and make sure you have the carrier's phone number.
- If buying bulls from interstate, organise any necessary health tests before leaving and work out if any other requirements must be met before cattle can come into another State.

When buying bulls from far away, you may often have to fit in with other delivery arrangements to reduce cost. You should make it clear how you want your bulls handled.

ARRIVAL

When the bull or bulls arrive home, unload them at the yards into a group of house cows, steers or herd cows. Never jump them from the back of a truck directly into a paddock—it may be the last time you see them. Bulls from different origins should be put into separate yards with other cattle for company.

Provide hay and water, then leave them alone until the next morning .

The next day, bulls should receive routine health treatments. If they have not been treated before, all bulls should be vaccinated with:

- 5-in-1 vaccine;
- vibriosis vaccine;
- leptospirosis vaccine (if in areas like the Hunter where leptospirosis exists);
- three-day sickness vaccine (if in areas where this sickness can cause problems).

Give particular attention to preventing new bulls bringing vibriosis into a herd. Vibriosis, a sexually transmitted disease, causes infertility and abortions and is most commonly introduced to a clean herd by an infected bull. These bulls show no signs of the illness. Vaccinated bulls are free from vibriosis, so vaccinating bulls against the disease should be a routine practice.

Vaccination involves two injections, 4–6 weeks apart, at the time of introduction, and then a booster shot every year. Complete the vaccinations 4 weeks before joining.

Consult with your veterinarian and draw up a policy for treating bulls on arrival and then annually. Bulls should be drenched to prevent introducing worms and, if necessary, should be treated for lice.

Plan to give follow-up vaccinations 4–6 weeks later. Leave the bulls in the yards for the next day or two on feed and water to allow them to settle down with other stock for company. A bull's behaviour will decide how quickly he can be moved out to paddocks.

MATING NEW YOUNG BULLS

Newly purchased young bulls should not be placed with older herd bulls for multiple-sire joining. The older, dominant bull will not allow the young bulls to work, and will knock them around while keeping them away from the cows.

Use new bulls in either single-sire groups or with young bulls their own age. If a number of young bulls are to be used together, run them together for a few weeks before joining starts. They sort out their pecking order quickly and have few problems later.

When the young bulls are working, inspect them regularly and closely.

MATING NEW YOUNG BULLS

Older working bulls also need special care and attention before mating starts. They should be tested or checked every year for physical soundness, testicle tone, and serving capacity or ability.

All bulls to be used must be free-moving, active and in good condition. Working bulls may need supplementary feeding before the joining season to bring up condition.

DURING MATING

- Check bulls at least twice each week for the first 2 months. Get up close to them and watch each bull walk; check for swellings around the sheath and for lameness.

- Have a spare bull or bulls available to replace any that break down. Replace any suspect bull immediately.

- Rotate bulls in single-sire groups to make sure that any bull infertility is covered. Single-sire joining works well but it has risks. The bulls must be checked regularly and carefully, or the bulls should be rotated every one or two cycles.

Bulls are a large investment for breeding herds and they have a major effect on herd fertility. A little time and attention to make sure they are fit, free from disease and actively working is well worthwhile.

NORTHERN AUSTRALIA

Although the Angus breed originated in a cooler climate, they can adapt to subtropical regions with many straight-bred and cross bred producers finding success in Northern Australia. Some of the following information may also be helpful for new bulls located in more temperate climates.

ADAPTATION

They key to Northern success for Angus is that cattle introduced from the Southern regions of Australia be allowed to adapt to their new environment before commencing their working life. If possible, a break of 3 months is advisable before you set your bull to work.

PURCHASE IN COOLER MONTHS

Ensure your bulls are in good condition before they do commence their working life. The cooler months are an ideal time to purchase and introduce Angus cattle, allowing them plenty of time to acclimatise.

CHANGE OF FEED SOURCE

When inducting Angus cattle into your herd consider their source of feed. Have you taken an animal which has been supplemented on grain straight to a dry pasture? Animals should be gradually changed over to their new feed to ensure they do not lose condition. This may involve using supplements which could include dry lick/urea blocks.

MANAGING CATTLE TICKS

For ticky areas, bulls should be vaccinated prior to transport and given another booster afterwards. Remember males are more susceptible to ticks than females.

Information is provided by the Department of Primary Industries NSW. For further information visit the DPI web site: www.dpi.nsw.gov.au. or www.angusaustralia.com.au. Further reading - Buying Angus Bulls

FOR FURTHER INFORMATION VISIT
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The suffix displayed at the end of each animal's name indicates the DNA parentage verification that has been conducted by Angus Australia.

PV : both parents have been verified by DNA

SV : the sire has been verified by DNA

DV : the dam has been verified by DNA

\# : DNA verification has not been conducted

E : DNA verification has identified that the sire and/or dam may possibly be incorrect, but this cannot be confirmed conclusively.