2026
DAIRY SIRE CATALOGUE

A Quantum Leap Forward For Heat Tolerance

TROPICAL RESILIENCE GENETICS

ADAPTED to PERFORM in the HEAT!

CATALOGUE INDEX

Page No	Bull Code/ NASIS	Location	Breed Type	Name	SLICK gene	Sire	Polled/ Horned	A2	Kappa Casein		Index w SLICK Boost
6	**Holstein Section**										
8	COOLHARP	Australia	HF	**VALA SUNSATION HARPOON 50760-P**	Homozygous	Vala Sunsation-P	Heterozyg.	A1A2	AB	BPI+	**989**
9	COOLBEAM	Australia	HF	**VALA ROASTER BEAMSTAR 50786 - P**	Homozygous	Vala Nippon Roaster-P	Heterozyg.	A2A2	BB	BPI+	**871**
10	**524445**	NewZealand	HF	**Kiwipole Tama Grand**	Homozygous	TRG Cricket Tama	Horned	A2A2	AB	TrP$	**731**
11	COOLNADY	Australia	HF	**VALA BELLWEATHER NADY 50763**	Heterozygous	Vala Orbit Bellweather	Horned	A2A2	BB	BPI+	**917**
12	COOLMAN	Australia	HF	**VALA SUNSATION MANNY 50757**	Heterozygous	Vala Sunsation-P	Horned	A2A2	BB	BPI+	**851**
13	COOLBOOKIE	Australia	HF	**VALA DYNASTY BOOKEND 50766**	Heterozygous	Kings Ransom Dynasty	Horned	A2A2	BB	BPI+	**848**
14	COOLSABLE	Australia	HF	**VALA ROASTER SABLE-PP 50762**	Heterozygous	Vala Nippon Roaster-P	Homozyg.	A2A2	BB	BPI+	**786**
15	COOLHARRY	Australia	HF	**VALA FORBES HARRY-ET**	Heterozygous	Melarry SSI Renegd Forbes	Horned	A2A2	BB	BPI+	**660**
16	**525553**	NewZealand	HF	**Resilience Eskceptional P**	Heterozygous	TTM Esker PP ET	Heterozyg.	A2A2		TrP$	**664**
17	**124775**	NewZealand	HF-Rec	**Resilience Jacko Prophet-Red P**	Heterozygous	Delta Jacko PP-Red	Heterozyg.	A2A2	AA	TrP$	**110**
18	**125850**	NewZealand	HF	**Resilience Milk Machine P**	Heterozygous	Hawk PP	Heterozyg.	A2A2	AB	TrP$	**418**
19	741HO12504	USA	HF	**Fit PA-MA Fat Mover SL-P-ET**	Heterozygous	Stantons Remover PP	Heterozyg.	A2A2	BB	IPI+	**3794**
20	741HO12503	USA	HF	**Gator Slick Cool Brad-S-ET**	Heterozygous	Ladys-Manor O Tamborine	Horned	A1A2	BB	IPI+	**3758**
21	741HO12502	USA	HF-Rec	**Bomaz Fit Cool-P-Sl-Red-ET**	Heterozygous	Ja-Bob Hallmark P Sl-Red	Heterozyg.	A1A2	AB	IPI+	**3576**
23	**Kiwipole Section**										
25	**525551**	NewZealand	KP	**Kiwipole Maestro Cheddar**	Homozygous			A1A2	BB	TrP$	**798**
26	**521707**	NewZealand	KP	**Kiwipole Hothouse Kakahu ET**	Homozygous	KP Slick TeMawhai		A2A2	BB	TrP$	**698**
27	**520711**	NewZealand	KP	**KP Terrific Mangawhero**	Homozygous	KP Slick Terrific		A2A2	BB	TrP$	**283**
28	**519575**	NewZealand	KP	**Kiwipole Efficient Waipiri**	Homozygous	BDPH-16-637		A2A2	AB	TrP$	**263**
29	**50741**	Australia	HFxJ	**Vala Rune Marvel**	Heterozygous			A1A2			**TBC**
30	**Jersey Section**										
32	**520710**	NewZealand	Jer	**KP Manga Bardoulus**	Homozygous	Kiwipole Manga		A1A2	BB	TrP$	**451**
33	**Beef Section**										
36	720167	NewZealand		Rissington Savannah P101-Red	Homozygous	Hazeldean SK024	Homozyg.			LMPr$	**15,420**
37	TBC	NewZealand		Rissington Savannah U155-RC	Homozygous	Rissington Savannah P101-Red	Homozyg.			LMPr$	**22,296**
38	TBC	NewZealand		Rissington Savannah T148	Heterozygous	Leachman Docs Remedy U683E	Homozyg.			LMPr$	**27,237**

TROPICAL RESILIENCE GENETICS

ADAPTED to PERFORM in the HEAT!

UNDERSTANDING THE DANGERS OF HEAT STRESS
in dairy herds

Cows can get overheated easily, affecting growth, reproduction, health, live weight and milk production. Cattle are naturally warmer than humans and create additional heat through rumination. This means cows can overheat quickly with heat stress occurring at around 72 THI (Temperature Humidity Index), even when air temperatures are as low as 20°C.

Heat stress can reduce milk yield by as much as 50%. It can also lead to lower milk quality, poor reproductive performance, slow growth, increased water intake, reduced nutrient uptake and poor general welfare. These effects contribute to serious inefficiency and loss of profitability, plus excessive methane production per unit of product.

As cattle genetics and herds become more productive, the threshold temperature at which heat stress kicks in is becoming lower. Global estimates state that over 250 million dairy cows are in environments of significant heat stress.

Farmers around the world invest heavily in in their production systems to mitigate heat stress, but the permanent low-cost option to deliver reduced heat stress is to be found through SLICK genetics.

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

DON'T CHANGE YOUR FARMING PRACTICES

change your genetics

TrRG's new **SIRE Teams** with the slick gene are a quantum leap forward for heat tolerance and milk production under heat stress.

- Up to 4 litres more milk per day
- Up to 2 months shorter calving interval
- Heifers reach mating weights 2 months earlier

The 'SLICK gene' that the TrRG bull teams possess enables their daughters to regulate body temperature whilst maintaining milk yield under heat stress conditions. These cows are able to breed back quicker, offering more **lifetime** days in milk, better reproduction and weight gain performance.

These are new and exciting science-driven strains, to enhance the longevity, reproduction and productivity of your herd in ever more challenging climatic conditions.

Kiwipole™ from TrRG is a proven Crossbred dairy type with associated milk-ability and genetic potential proven since 2011 in large-scale New Zealand commercial herd. Kiwipole™ are 100% Taurus breed, with decades of breed improvement, but are as heat tolerant as local Indicus breeds.

True-to-breed and emerging Purebreed bloodlines are in place. We understand dairy farming profitability and we have a product for your farming system.

HOLSTEIN

KIWIPOLE™

JERSEY

TROPICAL RESILIENCE GENETICS

ADAPTED to PERFORM in the HEAT!

OUR STORY
Tropical Resilience Genetics

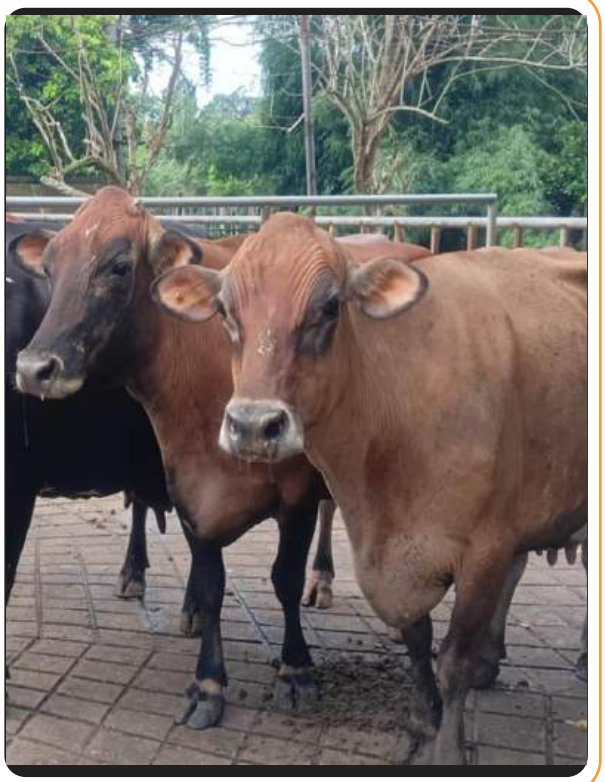
Back in 2006 on a field trip to Venezuela, the Founders noticed that some Carora cows were not making use of the available shade and were happily grazing in the direct sun, exposed to the considerable heat and humidity

It turned out that these cows were also producing sustainable and profitable yields.

The following year a similar observation was made in Costa Rica, with dairy cattle derived from the Senepol tropical breed. These cattle were also exhibiting exceptional heat tolerance and solid performance due to a 'slick' gene, a gene that improves heat tolerance and a visibly 'slick' shorter hair coat.

A few years later the opportunity to infer heat tolerance into temperate dairy cattle began in earnest using Senepol cattle. Over the following years, the specific gene marker was identified and introgression of the slick gene made it possible to achieve purebred, heat tolerant dairy herds.

The work refining and developing the breadth and depth of herd and bloodlines continue using embryo transfer, AI & natural breeding.



TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

HOLSTEIN

TROPICAL RESILIENCE GENETICS

ADAPTED to PERFORM in the HEAT!

SLICK Holstein-Friesian cows can perform closer to their true genetic potential under high Heat Stress conditions. Our strains of Holstein genetics cover all Feeding and Management Systems!

The natural variant SLICK gene protects the modern Holstein cows to enable:

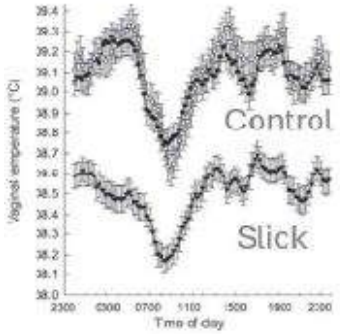
1. Minimised stress and better welfare - for more normal feed intake leading to better growth & production

2. Milk production remains high even when the heat stress comes on, by an average of 3-4 litres per day

3 Improved Feed Conversion Efficiency, as they do not waste energy
. fighting Heat Stress

4. Significantly improved fertility with reduced calving intervals

5. Better health for late pregnant cows and their developing calf



University of Florida mid Summer

In 2012, we were the first in the world to deliver naturally bred Dairy Type Homozygous Slick Bulls with semen avail-able for export, from one of the highest health status countries in the world.
TrRG is now establishing breeding herds and Sire teams physically located in the USA and Australia, with outcross to the existing New Zealand bull team. These herds of very different bloodlines allows us to to customize a solution for your farm system, milk payout schedules, dairy beef payment schedules, and various levels of farm heat stress. We have both A2 and Polled genetics as additional benefits from our breeding program.

Use these Sire Teams to transform the Profitability, Efficiency and Sustainability of your Tropical Dairy Farms.

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

VALA SUNSATION HARPOON-P

AUS

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

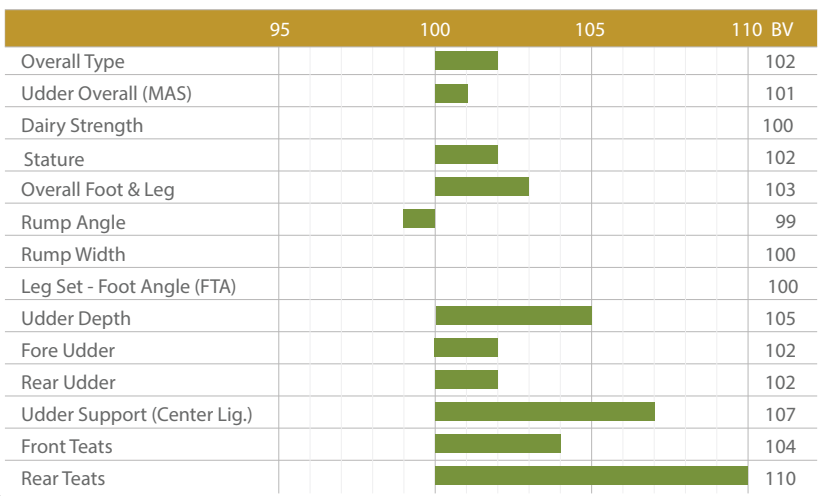
NASIS Code	COOLHARP
Slick Gene	**Homozygous**
Breed	**Reg. Holstein**
Birth ID	HO2288636
Born	08/11/2024
Beta Casein	**A1A2**
Kappa Casein	**AB**
Polled	

Pedigree

- VALA SUNSATION-PC (SLICK)
  - ♂ VALA BLANCO SUNNI (SLICK)
  - ♀ VALA MIRAND SALENA
- VALA FORTNITE HARRIET (SLICK)
  - ♂ PEAK FORTNITE-ET-PF
  - ♀ VALA BLANCO HARRIET (SLICK)

Production Traits	
Traits	VALUE
BPI w SLICK Boost	989
BPI/BPI Reliability %	282/63
HWI	221
SI	384
ASI	134
Milk (in Ltrs.)	360
Fat(KGs)	15
Fat(%)	-0.01
Protein (KGs)	10
Protein (%)	0.01
Somatic Cell Count	115
Liveweight	99
Calving Ease	101
Gestation Length	-1
Health & Welfare Traits	
Mastitis Resistant	103
Daughter Fertility	100

Conformation Production Traits



- 100% SLICK Daughters
- 50% polled
- Medium size easy care cows
- Shallow well attached udders

5th gen Dam: View Home Uno Hope

VALA ROASTER BEAMSTAR - P

AUS

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

NASIS Code	**COOLBEAM**
Slick Gene	**Homozygous**
Breed	**Reg. Holstein**
Birth ID	HO2309230
Born	04/11/2024
Beta Casein	**A2A2**
Kappa Casein	**BB**
Polled	

Pedigree

- ♂ VALA NIPPON ROASTER (SLICK)
  - ♂ DELTA NIPPON
  - ♀ VALA BLANCO ROSIE (SLICK)
- ♀ VALA BLANCO BEAM (SLICK)
  - ♂ SLICK-GATOR BLANCO (SLICK)
  - ♀ VALA MASERATI BEAM

Production Traits	
Traits	VALUE
BPI w SLICK Boost	871
BPI/BPI Reliability %	164/64
HWI	158
SI	130
ASI	-22
Milk (in Ltrs.)	-78
Fat(KGs)	-7
Fat(%)	-0.05
Protein (KGs)	1
Protein (%)	0.06
Somatic Cell Count	126
Liveweight	99
Calving Ease	100
Gestation Length	1
Health & Welfare Traits	
Mastitis Resistant	108
Daughter Fertility	103

Conformation Production Traits

Traits	92	95	100	105	107	BV
Overall Type						103
Udder Overall (MAS)						104
Dairy Strength						96
Stature						102
Overall Foot & Leg						101
Rump Angle						103
Rump Width						101
Leg Set - Foot Angle (FTA)						99
Udder Depth						109
Fore Udder						103
Rear Udder						106
Udder Support (Center Lig.)						99
Front Teats						99
Rear Teats						94

- ✅ 100% of calves will be SLICK
- ✅ Polled gene carrier
- ✅ Fertile smaller cows
- ✅ High Quality milk & mastitis resistant
- ✅ Use on cows with strong centre ligament

Sister of 2nd Gen Dam Maserati Beam: Stantons Bee Desired

KIWIPOLE TAMA GRAND

NZ

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	**524445**
Slick Gene	**Homozygous**
Breed	**F12J3S1**
Birth ID	MDBP-23-3013
Born	08/04/2023
Beta Casein	**A2A2**
Kappa Casein	**AB**
Polled	

Pedigree

- ♂ TRG CRICKET TAMA (SLICK)
  - ♂ KIWIPOLE PLANET CRICKET (SLICK)
  - ♀ RESILIENCE DELTA CANDICE(SLICK)
- ♀ KIWIPOLE GRACE
  - ♂ KIWIPOLE SLICK CHECKPOINT(SLICK)
  - ♀ GHY - 16 -109

SD

Tropical Profit $$$	731	100%
Production Traits		
Traits	**TP $$$ BV**	**Within Breed BV**
Milk (in Ltrs.)	405	-405
Fat(KGs)	33	-3
Protein (KGs)	21	-9
Fertility (%)	25.5	-4.5
Body Condition Score	0.46	-0.04
Somatic Cell Count	-	-0.26
Liveweight	-	26
Heifer Calving Diff. (Breed Adj.)	-	-5.7
Gestation Length (days)	-	-3.1

Conformation Production Traits

Traits	-0.25	0	0.25	0.5	BV
Dairy Confirmation					0.05
Capacity					-0.11
Stature (Breed Adj.)					-0.13
Rump Angle					0.12
Rump Width (Breed Adj.)					-0.04
Leg Set - Foot Angle					-0.14
Overall Udder					0.32
Fore Udder					0.21
Rear Udder					0.21
Udder Support					0.35
Front Teats					0.18
Rear Teats					0.42

- ✓ **Get maximum SLICK impact PROFIT & Feed Efficiency from GRAND a medium size EZI care Holstein**
- ✓ **Very low Somatic cells = great Milk quality**
- ✓ **Super Udders**
- ✓ **SLICK fertility & BCS boost**

DAM: KIWIPOLE GRACE

*SD - Slick Daughters

VALA BELLWEATHER NADY

AUS

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

NASIS Code	COOLNADY
Slick Gene	**Heterozygous**
Breed	**Reg. Holstein**
Birth ID	HO2309196
Born	17/10/2024
Beta Casein	**A2A2**
Kappa Casein	**BB**
Horned	

Pedigree

- ♂ VALA ORBITZ BELLWEATHER(SLICK)
  - ♂ LADYS-MANOR BIG ORBITZ
  - ♀ VALA BLANCO BELL (SLICK)
- ♀ VALA EXTREMO NADY 731
  - ♂ PEAK EXTREMO
  - ♀ VALA NACASH NADY

Production Traits	
Traits	VALUE
BPI w SLICK Boost	917
BPI/BPI Reliability %	564/64
HWI	414
SI	732
ASI	267
Milk (in Ltrs.)	266
Fat(KGs)	28
Fat(%)	0.24
Protein (KGs)	17
Protein (%)	0.18
Somatic Cell Count	146
Liveweight	101
Calving Ease	101
Gestation Length	-4
Health & Welfare Traits	
Mastitis Resistant	103
Daughter Fertility	99

Conformation Production Traits

Traits	95	100	105	110	BV
Overall Type					108
Udder Overall (MAS)					109
Dairy Strength					98
Stature					104
Overall Foot & Leg					104
Rump Angle					103
Rump Width					102
Leg Set - Foot Angle (FTA)					103
Udder Depth					109
Fore Udder					103
Rear Udder					111
Udder Support (Center Lig.)					103
Front Teats					103
Rear Teats					101

- ✅ High ranking for BPI and HWI
- ✅ Superb milk solids and high milk quality
- ✅ Stylish heifers with well attached udders
- ✅ Short gestation length and easy calving
- ✅ 50% of Progeny will be SLICK

4th Gen Dam - RI-VAL-RE CAMARO NADY

VALA SUNSATION MANNY

AUS

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

NASIS Code	COOLMAN
Slick Gene	**Heterozygous**
Breed	**Reg. Holstein**
Birth ID	HO2288632
Born	23/07/2024
Beta Casein	**A2A2**
Kappa Casein	**BB**
Horned	

Pedigree

- ♂ VALA SUNSATION -PC (SLICK)
  - ♂ VALA BLANCO SUNNI (SLICK)
  - ♀ VALA MIRANDA SALENA
- ♀ VALA FORTNITE MANNY
  - ♂ PEAK FORTNITE
  - ♀ VALA PERK MAHATTAN

Production Traits

Traits	VALUE
BPI w SLICK Boost	851
BPI/BPI Reliability %	498/64
HWI	274
SI	699
ASI	411
Milk (in Ltrs.)	-279
Fat(KGs)	45
Fat(%)	1.81
Protein (KGs)	17
Protein (%)	0.46
Somatic Cell Count	113
Liveweight	102
Calving Ease	101
Gestation Length	1
Health & Welfare Traits	
Mastitis Resistant	102
Daughter Fertility	97

Conformation Production Traits

Traits	95	100	105	110 BV
Overall Type				104
Udder Overall (MAS)				100
Dairy Strength				98
Stature				108
Overall Foot & Leg				101
Rump Angle				103
Rump Width				105
Leg Set - Foot Angle (FTA)				101
Udder Depth				108
Fore Udder				103
Rear Udder				107
Udder Support (Center Lig.)				105
Front Teats				110
Rear Teats				107

- ✅ Stylish daughters with superb udders
- ✅ Extreme high milk solids and A2A2
- ✅ Positive health and fertility traits
- ✅ From the successful SandyValley Planet Melody Cow family
- ✅ 50% of progeny will be SLICK

7th Dam - Sandy Valley Planet Melody

VALA DYNASTY BOOKEND

AUS

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

NASIS Code	COOLBOOKIE
Slick Gene	**Heterozygous**
Breed	**Reg. Holstein**
Birth ID	HO2309253
Born	19/10/2024
Beta Casein	**A2A2**
Kappa Casein	**BB**
Horned	

Pedigree

- ♂ KINGS RANSOM DYNASTY
  - ♂ SIEMERS RENGD PARFECT
  - ♀ KINGS RANSOM LGCY DAKOTA
- ♀ VALA SUNNI BOLADE 735 (SLICK)
  - ♂ VALA BLANCO SUNNI (SLICK)
  - ♀ VALA ANDREAS MOCHA

Production Traits

Traits	VALUE
BPI w SLICK Boost	848
BPI/BPI Reliability %	495/66
HWI	301
SI	612
ASI	328
Milk (in Ltrs.)	401
Fat(KGs)	45
Fat(%)	0.4
Protein (KGs)	14
Protein (%)	0.05
Somatic Cell Count	130
Liveweight	102
Calving Ease	98
Gestation Length	-1
Health & Welfare Traits	
Mastitis Resistant	108
Daughter Fertility	99

Conformation Production Traits

Traits	95	100	105	110 BV
Overall Type				109
Udder Overall (MAS)				104
Dairy Strength				103
Stature				104
Overall Foot & Leg				105
Rump Angle				96
Rump Width				102
Leg Set - Foot Angle (FTA)				101
Udder Depth				107
Fore Udder				106
Rear Udder				110
Udder Support (Center Lig.)				109
Front Teats				106
Rear Teats				107

- ✅ Medium size heifers with superb udders
- ✅ **Efficient milk solid production**
- ✅ Internationally recognised cow family
- ✅ 50% of Progeny will be SLICK
- ✅ Carries BLACK and RED gene

6th gen Dam: MADRE ALEXERIN SUPERSIRE 1343

VALA ROASTER SABLE-PP

AUS

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

NASIS Code	COOLSABLE
Slick Gene	**Heterozygous**
Breed	**Reg. Holstein**
Birth ID	HO2309189
Born	15/10/2024
Beta Casein	**A2A2**
Kappa Casein	**BB**
Polled	

Pedigree

- ♂ VALA NIPPON ROASTER (SLICK)
  - ♂ DELTA NIPPON
  - ♀ VALA BLANCO ROSIE(SLICK)
- ♀ VALA ZAZZLE SABELA
  - ♂ PEAK ALTAZAZZLE
  - ♀ VALA MIRAND SALENA

Production Traits	
Traits	VALUE
BPI w SLICK Boost	786
BPI/BPI Reliability %	433/65
HWI	404
SI	444
ASI	146
Milk (in Ltrs.)	-170
Fat(KGs)	22
Fat(%)	0.42
Protein (KGs)	1
Protein (%)	0.11
Somatic Cell Count	111
Liveweight	101
Calving Ease	102
Gestation Length	-1
Health & Welfare Traits	
Mastitis Resistant	104
Daughter Fertility	109

Conformation Production Traits

Traits	90	95	100	105	110 BV
Overall Type					105
Udder Overall (MAS)					101
Dairy Strength					96
Stature					106
Overall Foot & Leg					101
Rump Angle					102
Rump Width					109
Leg Set - Foot Angle (FTA)					97
Udder Depth					112
Fore Udder					106
Rear Udder					107
Udder Support (Center Lig.)					101
Front Teats					94
Rear Teats					94

- ✅ 100% Polled calves
- ✅ Fertile production easy calving cows
- ✅ Well attached udders
- ✅ 50% of calves will be SLICK

3rd Dam - Parkhurst Powerball Salina

VALA FORBES HARRY

AUS

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

NASIS Code	COOLHARRY
Slick Gene	**Heterozygous**
Breed	**Reg. Holstein**
Birth ID	HO2204312
Born	23/07/2022
Beta Casein	**A2A2**
Kappa Casein	**BB**
Horned	

Pedigree

- ♂ MELARRY SSI RENGD FORBES
  - ♂ S-S-I PR RENEGADE
  - ♀ MELARRY FRAZZLD FANDANGO
- ♀ VALA BLANCO HARRIET (SLICK)
  - ♂ SLICK GATOR BLANCO (SLICK)
  - ♀ VALA BIGHIT HAVIANA

Production Traits

Traits	VALUE
BPI w SLICK Boost	660
BPI	307/66
HWI	281
SI	352
ASI	84
Milk (in Ltrs.)	163
Fat(KGs)	9
Fat(%)	0.03
Protein (KGs)	6
Protein (%)	0.03
Somatic Cell Count	119
Liveweight	100
Calving Ease	101
Gestation Length	-1
Health & Welfare Traits	
Mastitis Resistant	108
Daughter Fertility	104

Conformation Production Traits

Traits	95	100	105	BV
Overall Type				103
Udder Overall (MAS)				104
Dairy Strength				100
Stature				101
Overall Foot & Leg				98
Rump Angle				102
Rump Width				101
Leg Set - Foot Angle (FTA)				101
Udder Depth				106
Fore Udder				103
Rear Udder				104
Udder Support (Center Lig.)				102
Front Teats				104
Rear Teats				104

- ✅ Moderate size daughters but with very sound udders
- ✅ Good udder health
- ✅ High fertility
- ✅ A2A2
- ✅ 50% of progeny will be SLICK

7th Dam - Pine Tree Martha Sheen

RESILIENCE ESKCEPTIONAL P

NZ

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	525553
Slick Gene	**Heterozygous**
Breed	**F13J2S1**
Birth ID	VCVK-24-40
Born	10/08/2024
Beta Casein	**A2A2**
Kappa Casein	
Polled	

Pedigree

- ♂ TTM ESKER PP
  - ♂ BOMAZ MONUMENT
  - ♀ TTM SS RENEGADE EMOJI
- ♀ BDPH-18-64(SLICK)
  - ♂ KIWIPOLE SLICK HIMEROS (SLICK)
  - ♀ BDPH-16-51

SD

Tropical Profit $$$	664	50%
Production Traits		
Traits	**TP $$$ BV**	**Within Breed BV**
Milk (in Ltrs.)	1081	676
Fat(KGs)	45	27
Protein (KGs)	33	18
Fertility (%)	11.8	-3.2
Body Condition Score	0.24	-0.01
Somatic Cell Count	-	-0.27
Liveweight	-	47
Heifer Calving Diff. (Breed Adj.)	-	-2.1
Gestation Length (days)	-	1.9

Conformation Production Traits

Traits	-0.5 0 0.5 1 1.5	BV
Dairy Confirmation		0.1
Capacity		-0.18
Stature (Breed Adj.)		1.22
Rump Angle		0.18
Rump Width (Breed Adj.)		0.05
Leg Set - Foot Angle		-0.3
Overall Udder		0.49
Fore Udder		0.29
Rear Udder		0.39
Udder Support		0.54
Front Teats		0.21
Rear Teats		0.4

- **50% Slick daughters**
- **A2 Milk**
- **A new high milk option**
- **Impressive conformation and udder traits**

*SD - Slick Daughters

RESILIENCE JACKO PROPHET P- RED

NZ

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	124775
Slick Gene	**Heterozygous**
Breed	**F15S1**
Birth ID	MDBP-22-2028
Born	21/04/2022
Beta Casein	**A2A2**
Kappa Casein	**AA**
Polled	

Pedigree

- ♂ CRV DELTAJACKO PP-RED
  - ♂ DELTA LEADER P
  - ♀ JOSLENE
- ♀ RESILIENCE POTHOS PRIZE(SLICK)
  - ♂ KIWIPOLE SLICK POTHOS (SLICK)
  - ♀ BDPH-17-7068

SD

Tropical Profit $$$	110	50%
Production Traits		
Traits	**TP $$$ BV**	**Within Breed BV**
Milk (in Ltrs.)	440	35
Fat(KGs)	3	-15
Protein (KGs)	4	-11
Fertility (%)	7.5	-7.5
Body Condition Score	0.3	0.05
Somatic Cell Count	-	-0.03
Liveweight	-	52
Heifer Calving Diff. (Breed Adj.)	-	-2.1
Gestation Length (days)	-	-0.5

Conformation Production Traits

Traits	-0.5	0	0.5	1	BV
Dairy Confirmation					0.07
Capacity					-0.15
Stature (Breed Adj.)					0.8
Rump Angle					0.38
Rump Width (Breed Adj.)					0.03
Leg Set - Foot Angle					-0.34
Overall Udder					0.63
Fore Udder					0.44
Rear Udder					0.47
Udder Support					0.58
Front Teats					0.17
Rear Teats					0.09

- ✅ **50% SLICK**
- ✅ **Daughters With Polled gene & Red**
- ✅ **A2 Milk**
- ✅ **Superb sound conformation**
- ✅ **50% Polled**

*SD - Slick Daughters

RESILIENCE MILK MACHINE P

NZ

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	125850
Slick Gene	**Heterozygous**
Breed	**F16**
Birth ID	VCVK-24-18
Born	03/04/2024
Beta Casein	**A2A2**
Kappa Casein	**AB**
Polled	

Pedigree

- ♂ RR HAWK-PP
  - ♂ K&L OH MATTY PRDC
  - ♀ RR HENRIETTE
- ♀ BDPH-19-9173(SLICK)
  - ♂ KIWIPOLE PLANET CRICKET(SLICK)
  - ♀ BDPH-13-134

SD

Tropical Profit $$$	418	50%
Production Traits		
Traits	**TP $$$ BV**	**Within Breed BV**
Milk (in Ltrs.)	1153	748
Fat(KGs)	17	-1
Protein (KGs)	29	14
Fertility (%)	9.3	-5.7
Body Condition Score	0.19	-0.06
Somatic Cell Count	-	-0.37
Liveweight	-	66
Heifer Calving Diff. (Breed Adj.)	-	-1.6
Gestation Length (days)	-	1.5

Conformation Production Traits

Traits	-0.5	0	0.5	1	1.5	BV
Dairy Confirmation						0.23
Capacity						-0.17
Stature (Breed Adj.)						1.03
Rump Angle						0.1
Rump Width (Breed Adj.)						0.44
Leg Set - Foot Angle						-0.36
Overall Udder						0.98
Fore Udder						0.75
Rear Udder						0.65
Udder Support						0.89
Front Teats						0.33
Rear Teats						0.64

- ✅ **50% SLICK Daughters**
- ✅ **Get maximum Milk Volume**
- ✅ **A2, high quality milk**
- ✅ **Easy Calving**
- ✅ **50% Polled calves**
- ✅ **Stylish daughters that will last**

*SD - Slick Daughters

FIT PA-MA FAT MOVER-SI-P-ET

USA

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

NAAB Code	**741 HO12504**
Slick Gene	**Heterozygous**
Breed	**Reg.Holstein**
National ID	HO840003217899769
Born	12/11/2024
Beta Casein	**A2A2**
Kappa Casein	**AB**
Polled	

Pedigree

- ♂ STANTONS REMOVER PP
  - ♂ FARMEAR UPSIDE
  - ♀ SLICK GATOR ANA-ET
- ♀ GATOR SLICK MARYELLEN
  - ♂ DAR-BURN ALTATORRENT
  - ♀ SLICK-GATOR VERO

Production Traits	
Traits	**PTA VALUE**
TPI w SLICK Boost	3794
TPI	2928
NM$	460
Feed Saved	-94
CFP	109
Milk (in Lbs.)	767
Fat(Lbs)	72
Fat(%)	0.15
Protein (Lbs)	37
Protein (%)	0.04
Somatic Cell Score	2.98
SCE	1.9
Gestation Length	1
Health &Welfare Traits	
Mastitis Resistant	-0.3
DPR	-0.3
livability	-0.9
BWC	0.55

HA Type Summary

Traits	-2 -1.5 -1 -0.5 0.5 1 1.5 2	PTA Values
PTAT		-0.1
UDC		-0.62
Strength		0.58
Stature		0.5
FLC		0.02
Rump Angle		-0.8
Thurl Width		0.81
Leg Set - Foot Angle (FTA)		-0.11
Udder Depth		-0.52
Fore Udder Attachment		-0.38
Rear Udder Height		-0.37
Udder Cleft		-0.38
Front Teats Placement		-0.97
Rear Teats P Rear		-0.72

- ✅ **Well suited for cheese and solids-based milk markets**
- ✅ **Combines production and functional fitness**
- ✅ **Strong bodied daughters**

Note: This bull does not qualify for Australia.

GATOR SLICK COOL BRAD-S-ET

USA

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

NAAB Code	741 HO12503
Slick Gene	Heterozygous
Breed	Reg. Holstein
National ID	HO840003281383479
Born	13/10/2024
Beta Casein	A1A2
Kappa Casein	BB
Horned	

Pedigree

- ♂ LADYS-MANOR O TAMBORINE
  - ♂ LADYS-MANOR OUTCOME_ET
  - ♀ LADYS-MANOR ALPHABT TUBE-ET
- ♀ SLICK-GATOR QUINN
  - ♂ FARNEAR UPSIDE-ET
  - ♀ SLICK-GATOR GLORIA

Production Traits	
Traits	**PTA VALUE**
TPI w SLICK Boost	3758
TPI	2892
NM$	516
Feed Saved	248
CFP	80
Milk (in Lbs.)	560
Fat(Lbs)	50
Fat(%)	0.1
Protein (Lbs)	30
Protein (%)	0.04
Somatic Cell Score	2.99
SCE	1.2
Gestation Length	-1
Health &Welfare Traits	
Mastitis Resistant	0.6
DPR	1.2
Livability	0.3
BWC	-0.28

HA Type Summary

	-2 -1.5 -1 -0.5 0.5 1 1.5 2	PTA Values
PTAT		-0.07
UDC		-0.23
Strength		-0.85
Stature		-0.01
FLC		0.02
Rump Angle		-1.43
Thurl Width		0.07
Leg Set - Foot Angle (FTA)		-0.18
Udder Depth		-0.17
Fore Udder Attachment		-0.34
Rear Udder Height		0.12
Udder Cleft		-0.27
Front Teats Placement		-0.48
Rear Teats P Rear		-0.47

- Strong production with added fat and protein
- Feed efficient daughters with good health and fertility
- Supports sustainable, cost efficient milk production

BOMAZ FIT COOL-P-SL-RED-ET

USA

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

NAABCode	**741 HO12502**
Slick Gene	**Heterozygous**
Breed	**Reg.Holstein**
National ID	HO240003294776029
Born	09/09/2024
Beta Casein	**A1A2**
Kappa Casein	**BB**
Polled	

Pedigree

- **Ja-Bob Hallmark P SI-RED**
  - **JIMTOWN NETWORK RED**
  - **BOMAZ MAXIMUS 764**
- **BOMAZ NETWOK11469**
  - **RMD-DOTTERER SSI MAXIMUS**
  - **BOMAZ SALVATORE RC 8066**

Production Traits	
Traits	**PTA VALUES**
TPI w SLICK Boost	3576
TPI	2710
NM$	328
Feed Saved	159
CFP	38
Milk (in Lbs.)	248
Fat(Lbs)	18
Fat(%)	0.03
Protein (Lbs)	20
Protein (%)	0.04
Somatic Cell Score	2.88
SCE	1.5
Gestation Length	0
Health &Welfare Traits	
Mastitis Resistant	0.8
DPR	-0.2
Livability	1.4
BWC	-0.81

HA Type Summary

Traits	-2	-1.5	-1	-0.5	0.5	1	1.5	2	PTAValues
PTAT									-0.15
UDC									-0.1
Strength									-0.89
Stature									-0.95
FLC									0.11
Rump Angle									0.31
Thurl Width									-0.03
Leg Set - Foot Angle (FTA)									-0.54
Udder Depth									-1.15
Fore Udder Attachment									-0.71
Rear Udder Height									0.14
Udder Cleft									-0.07
Front Teats Placement									0.28
Rear Teats P Rear									0.47

- High component milk producers
- Good legs for commercial environments
- Long-lasting, low maintenance cows

DAM : Bomaz Delta 7173-ET VG-88

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

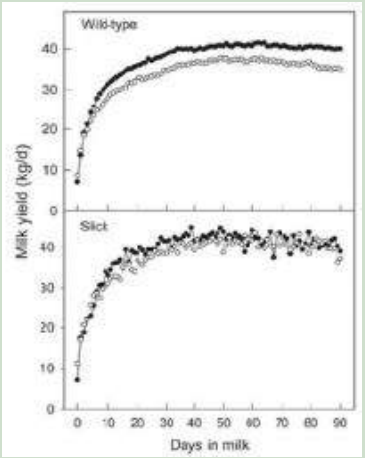
KIWIPOLE™

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

A SLICK Composite animal bred for high to extreme heat stress, under high forage or grazing based milk production systems, with higher milk solids (fat plus protein) that customers often prefer!

We have named our cross-bred cattl - Kiwipole™, from popular, highly selected Holstein-Friesian and Jersey genetics that are mix of Holstein and Jersey breeds with infusion from Senepol, from proven Dams.

The **Crossbred** cows are recognised as highly efficient by NZ Dairy Farmers, now making up 60% of the national herd. The high level of herd recording (90%) and use of AI and Herd testing (80%) creates a powerful genetic improvement machine..



Tropical Resilience Genetics has now integrated the SLICK gene with these highly profitable cows to produce a Homozygous SLICK Sire Team that has been well accepted and gained popularity in markets such as the Philippines.

We have developed a Tropical Profit $$$™ index to guide our breeding program and which can be customised to your market situation. The index is based on the same principles as New Zealand Breeding Worth, i.e. the amount of profit generated from typical feed intake (in NZ, 5 **tonnes** of dry matter per cow p.a.).

Select your team to suit the management conditions where some of the Sire team has reduced residual Senepol for more moderate climates, or higher Senepol residual for more challenging heat stress, and grazing based system with a higher tick infestations.

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

KIWIPOLE™ CHEDDAR MAESTRO

NZ

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	525551
Slick Gene	**Homozygous**
Breed	**J9F6S1**
Birth ID	VCVK-24-3
Born	13/03/2024
Beta Casein	**A1A2**
Kappa Casein	**BB**
Polled	

Pedigree

- ♂ KAITAREI JERSEY BOY (SLICK)
  - ♂ PTCW-19-122
  - ♀ PTCW-19-64(SLICK)
- ♀ MDBP-22-2010 (SLICK)
  - ♂ KIWIPOLETEMAWHAI HOTHOUSE(SLICK)
  - ♀ FXQM-14-37

SD

Tropical Profit $$$	798	100%
Production Traits		
Traits	**TP $$$ BV**	**Within Breed BV**
Milk (in Ltrs.)	534	276
Fat(KGs)	25	-11
Protein (KGs)	25	-5
Fertility (%)	30	0
Body Condition Score	0.58	0.08
Somatic Cell Count	-	-0.13
Liveweight	-	12.5
Heifer Calving Diff. (Breed Adj.)	-	1.3
Gestation Length (days)	-	1.6

Conformation Production Traits

Traits	-0.5 0 0.5	BV
Dairy Confirmation		-0.05
Capacity		-0.11
Stature (Breed Adj.)		0.32
Rump Angle		0.07
Rump Width (Breed Adj.)		0
Leg Set - Foot Angle		-0.18
Overall Udder		0.16
Fore Udder		0.23
Rear Udder		-0.03
Udder Support		0.22
Front Teats		0.15
Rear Teats		0.14

- **100% Slick Daughters**
- **Ideal milk for cheese making**
- **Medium size cows with tidy udders**

*SD - Slick Daughters

KIWIPOLE HOTHOUSE KAKAHU ET

NZ

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	521707
Slick Gene	**Homozygous**
Breed	**F10J5S1**
Birth ID	MNJL-20-251
Born	24/07/2020
Beta Casein	**A2A2**
Kappa Casein	**BB**
Polled	

Pedigree

- ♂ KIWIPOLETEMAWHAI HOTHOUSE(SLICK)
  - ♂ KIWIPOLE SLICK TEMAWHAI(SLICK)
  - ♀ DFRK-16-12
- ♀ KIWIPOLE GRACE (SLICK)
  - ♂ KIWIPOLE SLICK CHECKPOINT (SLICK)
  - ♀ GHY-16-109

SD

Tropical Profit $$$	698	100%

ProductionTraits

Traits	TP $$$ BV	Within Breed BV
Milk (in Ltrs.)	-39	-39
Fat(KGs)	24	24
Protein (KGs)	14	14
Fertility (%)	30.7	0.7
Body Condition Score	0.5	0
Somatic Cell Count	-	-0.15
Liveweight	-	4
Heifer Calving Diff. (Breed Adj.)	-	-0.4
Gestation Length (days)	-	0.6

Conformation ProductionTraits

Traits	-0.5 0 0.5	BV
Dairy Confirmation		-0.14
Capacity		-0.2
Stature (Breed Adj.)		0.04
Rump Angle		-0.02
Rump Width (Breed Adj.)		-0.16
Leg Set - Foot Angle		-0.11
Overall Udder		-0.06
Fore Udder		-0.04
Rear Udder		-0.12
Udder Support		-0.03
Front Teats		-0.02
Rear Teats		-0.03

- ✓ **100% SLICK Daughters**
- ✓ **A2 milk of good quality**
- ✓ **High Tropical Profit$$$ from hard working efficient Kiwipole™ daughters**

DAM: KIWIPOLE GRACE

*SD - Slick Daughters

KIWIPOLE TERRIFIC MANGAWHERO

NZ

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	520711
Slick Gene	**Homozygous**
Breed	**J10F2O4**
Birth ID	BDPH-20-604
Born	01/04/2020
Beta Casein	**A2A2**
Kappa Casein	**BB**
Polled	

Pedigree

- KIWIPOLE SLICK TERRIFIC (SLICK)
  - LYNBROOKTERRIFIC ET
  - KIWIPOLE CLAUDIA(SLICK)
- KIWIPOLE ADRIANA(SLICK)
  - KIWIPOLE GRAZER EFFICIENT(SLICK)
  - GWLT-12-165

SD

Tropical Profit $$$	283	100%
ProductionTraits		
Traits	**TP $$$ BV**	**Within Breed BV**
Milk (in Ltrs.)	-1308	-93
Fat(KGs)	-8	27
Protein (KGs)	-12	30
Fertility (%)	28.6	-1.4
Body Condition Score	0.54	0.04
Somatic Cell Count	-	0.09
Liveweight	-23	49
Heifer Calving Diff. (Breed Adj.)	-	-3.6
Gestation Length (days)	-	1.7

Conformation ProductionTraits

Traits	-1 0 0.5 1	BV
Dairy Confirmation		-0.21
Capacity		-0.07
Stature (Breed Adj.)		-0.62
Rump Angle		0.24
Rump Width (Breed Adj.)		-0.35
Leg Set - Foot Angle		0.01
Overall Udder		-0.29
Fore Udder		-0.33
Rear Udder		-0.17
Udder Support		-0.26
Front Teats		-0.17
Rear Teats		-0.29

- **100% SLICK daughters**
- **A2 Milk**
- **Kiwipole that breeds more towards Jersey style**
- **Sound heifers with good feet & Legs**

*SD - Slick Daughters

KIWIPOLE EFFICIENT WAIPIRI

NZ

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	519575
Slick Gene	**Homozygous**
Breed	**F9J4S3**
Birth ID	BDPH-18-220
Born	14/08/2018
Beta Casein	**A2A2**
Kappa Casein	**AB**
Polled	

Pedigree

- ♂ KIWIPOLE 6637 (SLICK)
  - ♂ KIWIPOLE SLICK SYSTEM 5(SLICK)
  - ♀ BDPH-14-191
- ♀ KIWIPOLETYRA (SLICK)
  - ♂ KIWIPOLE GRAZER EFFICIENT(SLICK)
  - ♀ LWXM-11-27

SD

Tropical Profit $$$	263	50%
Production Traits		
Traits	**TP $$$ BV**	**Within Breed BV**
Milk (in Ltrs.)	-543	-434
Fat(KGs)	-7	-7
Protein (KGs)	-6	-6
Fertility (%)	25.6	-4.4
Body Condition Score	0.5	0
Somatic Cell Count	-	-0.05
Liveweight	-	21
Heifer Calving Diff. (Breed Adj.)	-	2.2
Gestation Length (days)	-	2.5

Conformation Production Traits

Traits	-0.5	0	0.5	BV
Dairy Confirmation				-0.15
Capacity				-0.17
Stature (Breed Adj.)				0.32
Rump Angle				0.14
Rump Width (Breed Adj.)				-0.04
Leg Set - Foot Angle				-0.08
Overall Udder				-0.1
Fore Udder				-0.08
Rear Udder				-0.16
Udder Support				-0.09
Front Teats				-0.03
Rear Teats				-0.24

- **100% SLICK Daughters**
- **A2 Milk**
- **A Kiwipole sire throwing more to Holstein-Friesian frame**
- **Robust efficient heifers**

*SD - Slick Daughters

VALA RUNE MARVEL

AUS

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	50741
Slick Gene	**Heterozygous**
Breed	**F8J8**
Birth ID	V15103014
Born	05/03/2024
Beta Casein	**A1A2**
Kappa Casein	**AB**
Horned	

Pedigree

- ♂ VALA COCKPIT RUNE (SLICK)
  - ♂ STANTONS COCKPIT
  - ♀ VALA BLANCO ROSIE (SLICK)
- ♀ UNIQUEVIRAL MARVEL JEAUSF798313
  - ♂ LENCREST CONTOUR JECANM111353299
  - ♀ BUSHLEA PNVIRAL JECANF13050942

Production Traits

Traits	VALUE
BPI w SLICK Boost	-
BPI	241
HWI	285
SI	434
ASI	-
Milk (in Ltrs.)	410
Fat(KGs)	15
Fat(%)	-
Protein (KGs)	8
Protein (%)	-
Somatic Cell Count	154
Liveweight	-
Calving Ease	-
Gestation Length	-
Health &Welfare Traits	
Mastitis Resistant	106
Daughter Fertility	109

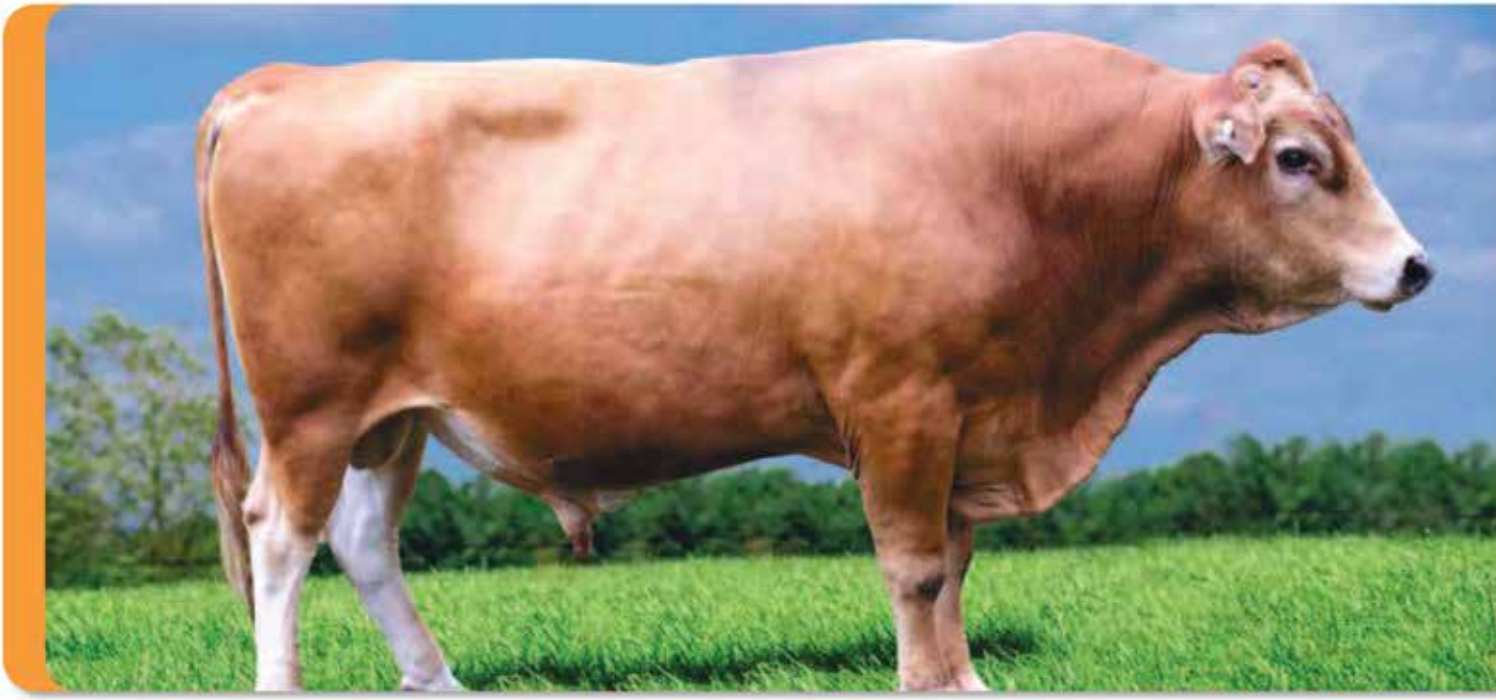
Conformation Production Traits

Traits	95	100	105	BV
Overall Type				98
Udder Overall (MAS)				98
Dairy Strength				97
Stature				98
Overall Foot & Leg				100
Rump Angle				103
Rump Width				99
Leg Set - Foot Angle (FTA)				104
Udder Depth				103
Fore Udder				101
Rear Udder				98
Udder Support (Center Lig.)				97
Front Teats				102
Rear Teats				103

- **Breed 3/4 Holstein daughters with 50% SLICK**
- **From Top Canadian Jersey family for Protein & Type**
- **Medium size easy care cows**
- **Well attached udders**

3rd Gen Dam: Redhot Matt Tesla

JERSEY



TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

With moderate size for superb Production Efficiency, and Fertility, use SLICK Jersey to guarantee; Rich Creamy milk, Herd growth and profitability under tropical conditions.

New Zealand hosts the largest recorded Jersey breeding population in the world and with the high farmer participation genetic progress is rapid.

The full diversity of global Jersey genetics is represented in New Zealand and we have infused the SLICK gene into the best Jerseys that we can find in NZ, and are exporting this quality right around the Equator

Jerseys adapt well right across the range of modern farm feeding and management systems, but are particularly efficient in pasture grazing where they have a light foot print minimising pasture damage, enabling maximum forage conversion to Milk, A2 and Polled options have been developed so our customers can be assured to find the preferred genetic solution.

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

KIWIPOLE MANGA BARDOULUS

NZ

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

Sire Information

Bull Code	520710
Slick Gene	Homozygous
Breed	J11F3S2
Birth ID	BDPH-20-503
Born	09/03/2020
Beta Casein	A1A2
Kappa Casein	BB
Polled	

Pedigree

- ♂ KIWIPOLE MANGA (SLICK)
  - ♂ KIWIPOLE SLICK MANGATOATOA (SLICK)
  - ♀ GHY-15-103
- ♀ KIWIPOLE RACHAEL (SLICK)
  - ♂ KIWIPOLE SLICK GRAZER (SLICK)
  - ♀ LWXM-12-20

SD

Tropical Profit $$$	451	100%
Production Traits		
Traits	**TP $$$ BV**	**Within Breed BV**
Milk (in Ltrs.)	-519	696
Fat(KGs)	6	41
Protein (KGs)	-6	-36
Fertility (%)	30.09	0.9
Body Condition Score	0.52	0.02
Somatic Cell Count	-	-0.15
Liveweight	-25	47
Heifer Calving Diff. (Breed Adj.)	-	6.2
Gestation Length (days)	-	0.7

*SD - Slick Daughters

Conformation Production Traits

Traits (-1 … -0.5 … 0 … 0.5)	BV
Dairy Confirmation	-0.21
Capacity	-0.07
Stature (Breed Adj.)	-0.62
Rump Angle	0.24
Rump Width (Breed Adj.)	-0.35
Leg Set - Foot Angle	0.01
Overall Udder	-0.29
Fore Udder	-0.33
Rear Udder	-0.17
Udder Support	-0.26
Front Teats	-0.17
Rear Teats	-0.29

- 100% SLICK Daughters
- Breeds Jersey style daughters, but with extra milk volume
- Smaller but highly efficient
- Ideal for cross-breeding

BEEF

The SLICK gene enables these cattle to maintain high feed intake and growth in Tropical conditions.

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

World Class efficient Beef Productivity in Tropical Zones!!!

This objective is achievable with the superior Sire genetics available from Tropical Resilience Genetics. The SLICK gene has been introgressed into the top bracket of a mix of the established Beef breeds; Simmental, Angus, Gelbvieh and South Devon.

This breeding program taps into Rissington Cattle Co. using the latest genetic tools available - Embryo Transfer and Genomics, referencing the Leachman Global beef database, with data from greater than 1.5 million breeding cattle across North North America, America, Australasia and the United Kingdom.

Initially, top Senepol sires were inseminated into over top ranked Simmental cows and then the other breeds have been utilised to ensure the optimal mix of; Growth, Maternal traits, Fertility andMeat quality. The most profitable dams and sires are selected for breeding using the $Profit Indexes which combine:

REVENUE TRAITS

Calving ease -more calves more revenue.

200 Day Weight & 400 Day Weight EBV-more weight = more $

Fertility (less days to conception) = more calves at higher weights

Carcass weight -from increased muscling

Marbling -valued based on grid premiums

Eye muscle area -value as impacts yield grade

% Retail Product -more saleable higher value meat

COSTTRAITS

Cow mature size -higher maintenance cost

Cow intake -grazing capacity and efficiency

Feedlot feed efficiency -identifying better feed

$Profit = Profitability from conception to slaughter; **$Ranch** = Profitability of Breeding Herd; **$Feeder** = Profitability in Feedlot Finishing

TROPICAL RESILIENCE GENETICS
ADAPTED to PERFORM in the HEAT!

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RISSINGTON SAVANNAH P101
DOB: 09/12/2018 (Breed -Profitmaker)

Homozygous SLICK

Homozygous Polled

Yearling weight = 468 kg
Mature Weight(at 3 yrs) =805 kg

Sire: Hazeldean SK024
MGS: CDI Rimrock 325Z
Recorded Progeny: 37

Tremendous muscling sire, that is proven to transmit milk and fertility for a highly profitable cow. **Every calf will be extra Heat Tolerant.!**

TAG	Brand	Leachman Global Analysis (1.5 > million animals)															
		$Profit	$P Rel.	$Rank	$R Rank	$Feeder	$F Rank	BW	WW	YW	MW	Milk	Intake	Fertility	CW	EMA	IMF
180101	P101	$15,420	21%	$107	24%	$65	52%	0.3	44	75	9	27	17.66	1.69	48	1.05	0.14
Global Average		$8,817		$39		$68		1.9	40	67	28	22	27.56	1.42	44	0.82	0.30

TROPICAL RESILIENCE GENETICS
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SAVANNAH RISSINGTON
U155 DOB: 21/08/2023

Homozygous SLICK

Homozygous Polled

Yearling weight (13 mths) = 630 kgs
Weight gain for 1st 12 months =1.7kgs per day
At 20 months 760kg
Sire: Rissington Savanna P101
MGS: : Rissington K0487
Breed -Profitmaker
(44% Angus 28% Simmental, 10% Senepol)

A tremendous son of Rissington Savannah P101 - Low Birth weight but outstanding growth genetics, with feed conversion efficiency, with Senepol for Tick Resistance.

Brand	LC $Profit	LC $Ranch	LC $Feeder	LC Rnk $Profit	LC Rnk $Ranch	LC Rnk $Feeder	LC ABC BW	LC ABC WW	LC ABC YW	LC ABC MK	LC ABC SC	LC ABC FT	LC ABC CL	LC ABC MW	LC ABC BS	LC ABC TS	LC ABC FERT
U155	22,296	111.54	156.27	3.9	8.8	5.2	-1.2	53	103	28	0.54	0.44	0.36	10.93	-0.3	0.1	2.12

TROPICAL RESILIENCE GENETICS
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SAVANNAH RISSINGTON
T148 DOB: 27/09/2022

Heterozygous SLICK

Homozygous Polled

Sire: Leachman Docs Remedy U683E

MGS: Leachman Acceleate X166D

A real "curve-bender" with easy calving, but extreme yearling growth, with lower feed intake. In the top 2% globally for $Profit. Half the calves will get the SLICK gene, so you can prove the benefit!

TAG	Brand	Leachman Global Analysis (1.5 > million animals)															
		$Profit	$P Rel	$Rank	$R Rank	$Feeder	$F Rank	BW	WW	YW	MW	Milk	Intake	Fertility	CW	EMA	IMF
220148	T148	$27,237	2%	$131	6%	$198	1%	-2.4	46	89	2	23	-52.74	1.86	54	0.94	0.69
Global Average		$8,817		$39		$68		1.9	40	67	28	22	27.56	1.42	44	0.82	0.30

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Embryo Transfer Impact

IMPROVED versus LOCAL GENETICS

In the Tropical environments typically local cattle are adapted to the hot and harsh conditions. However, these cattle are bred for survival as the main selection objective, and they have not usually had generations of breeding and careful selection for growth and milk production efficiency, as occurs in the developed dairy country cattle breeds.

The Bos Taurus dairy breeds have benefited from many decades of herd recording, performance testing and intensive use of Embryo Transfer and AI. These tools have driven dramatic improvements in production and efficiency, providing a base for the implementation of genomic selection to further increase the rate of gain. While the dataset for beef genetic improvement is smaller and AI is not as widely used, there still has been major gains in growth and maternal traits and genomics are adding further genetic momentum.

The global map highlights the result of the genetic selection and efficient feeding programs in the Northernhemisphere and Australasia. It shows that **across the tropical zones there is between 2 and 7 times the amount of methane produced per kg of meat or milk compared to the temperate zones.** The methane produced is a major contributor to the green house gas emissions of these countries, but it is also directly correlated with the forage feed intake of the cattle, so it confirms the inefficient feed utilisation and low profitability of production with the local cattle.

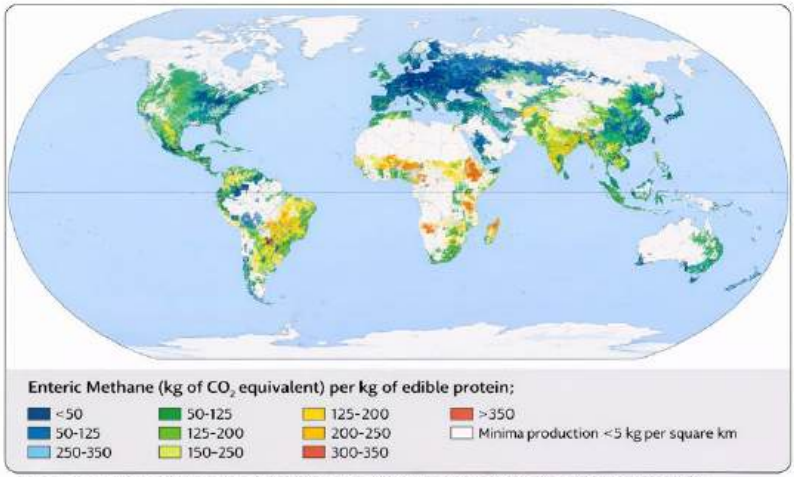

Diagram 1: Map of Intensity of Methane Emissions per kg of Meat or Milk; source FAO

TROPICAL RESILIENCE GENETICS
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SLICK gene offers a step change in genetic tolerance to heat and humidity, exceeding the benefit of providing shade or other cooling mechanisms. Cows are more comfortable and are able to continue to eat normally with high efficiency of feed conversion and higher productivity. When the SLICK gene is bred into the highly selected Bos Taurus breeds it enables them to adapt to perform closer to their genetic potential in the hotter climate, but still limited by the quality of feed they are offered.

Hence the SLICK genetics offer farmers in the tropics the opportunity to:

- Boost growth and production (milk to sell and/or feed a calf)
- Improve fertility and herd growth (earlier calvings)
- Massively improve feed conversion efficiency
- Dramatically reduce methane intensity, thus increasing farm and industry sustainability

The performance "kick" from the gene substantially outweighs any incremental improvement in the improved breeds genetic indexes in these environments.

OPTIONS TO UPGRADE TO SLICK GENETICS

To obtain the benefits of SLICK genetics a farmer can use AI, but if it is over a local base cow (usually Bos indicus) the performance results will be variable and it will take several generations to breed up to the full genetic level of the "SLICK" sires.

Embryo Transfer Impact

INTRODUCTION of IMPROVED GENETICS

If the farmer wants to achieve the higher performance potential in one generation then the two options are:

1. Importation of heifers sired by "SLICK" sires
2. Importation and transfer of embryos out of top cows sired by "SLICK" sires.

While live importation could be a quicker way to achieve the full impact from improved genetics with SLICK gene, these heifers will need to be produced by planned contract mating so then the timeline becomes similar.

There are several key advantages to utilising embryo importation.

- The genetic level will usually be better with the embryos, as they can readily be produced from donor cows in the top quartile of the purebred population.
- The embryo calves will receive antibodies to local diseases from their local recipient dams and may even be reared on these dams for best start.
- Batches of embryos are more flexible and easier to arrange than logistics for importations of live heifers.
- The management of recipient cows and the rearing of embryo calves through to mating and calving can fit well with farm and team development, ready for managing and feeding the milking herd as it grows.

THE TROPICAL RESILIENCE EMBRYO PROGRAM

Source Country Options:

Tropical Resilience Genetics has a dedicated farm in Cambridge, **New Zealand**. We have access to partner facilities in Illinois **USA**, and Victoria **Australia**

Donors are only sourced from high health status herds.
Contact us for more information and advice on breed and technology options for your Program!

Breed Options:
Holstein -Selection of top-quality cows with lifetime production, outstanding conformation, and regular calving history

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THE TROPICAL RESILIENCE EMBRYO PROGRAM

Jersey - Selection of high-capacity top performing cows with regular calving history

Beef Breeds: A beef SLICK gene breeding program at Rissington Cattle Co. has involved Simmental, Angus (Red & Black) and the hybrid breed, Profitmaker. Breeding selections are based on genomics the $Profit indexes from the Leachman Global Beef analysis, with > 1.5 million performance recorded cattle

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THE TROPICAL RESILIENCE EMBRYO PROGRAM

Technology Options:

Embryos can be produced by In-Vivo (MOET) or In-Vitro production (IVP) depending on country protocols and donor status.

Sexed or conventional semen can be used depending on herd growth and breeding strategies.

Embryo Inventory:

Embryos are produced to order, due to variation in client selection based on their breeding objectives and different country health status. When production exceeds order requirements some embryo may be added to our catalog of inventory.

Terms and Conditions:

Price on Application: 50% advance payment with order

Balance plus preparation and shipping costs payable prior to shipment.

ABOUT TROPICAL RESILIENCE GENETICS

Tropical Resilience Genetics acquired the breeding program and is making a long-term investment to globalise the tropically resilient bull team. The team has assembled an internationally regarded genetics and scientific advisory team with with strong governance.

In the breeding program a wide selection of SLICK animals have been milked in New Zealand since 2011 and only the best have been retained as potential bull mothers. It spans several different bloodlines from US Holstein, to NZ Crossbreeds to Jersey, to allow development and selection of the best fit genetics for the farming systems and relative degree of heat stress of its tropical farming clients.

The slick gene is now present in several dairy clusters around the world, including New Zealand, Australia, the USA, Costa Rica, Venezuela, Colombia, Puerto Rico, Philippines, Thailand, Vietnam, Tanzania and Mozambique. Tropical Resilience Genetics now leads the development of the SLICK nucleus herd in several markets and offers outcross options for those with established herd improvement momentum.

In a recent restructure, Tropical Resilience Genetics Ltd (TrRG) was formed and now owns the world's largest and most diverse next generation Homozygous bull team selected to ensure farmer confidence in scientific validation and breed development. TrRG maintains its breeding nucleus on a dairy farm near Hamilton, Waikato and currently The TrRG bulls are housed in a government approved export centres in New Zealand, Australia and USA

TrRG is offering Pure Holstein, Jersey and KiwiPole™ to the global dairy market - plus composite Beef breeds, all conditioned to thrive in tropical climates and combat the risks of heat stress in dairy cattle around the world

TROPICAL RESILIENCE GENETICS
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MEET OUR TEAM

the people making it happen

TIM HEELEY (Chairman)

- Former Institutional investment banker and public company CEO
- Strategic Implementation consultant
- Director on profit and not-for profit boards

DAVE HAYMAN (CEO & Director)

- Veterinarian with experience in livestock genetics and AI and Embryo Transfer
- Has managed substantial cattle improvement projects in T in Tropical zones
- Committed to improving livestock productivity and sustainability

DAVE MCEWEN (Director Finance)

- Experienced Agribusiness Management accountant
- Has managed finances for large scale reprotech
- Director on profit and not-for profit boards

DAVID HEALD (Director)

- Managing Partner Baker Tilly Staples
- Rodway Chartered Accountancy
- Investment Advisor
- Significant Professional Directorships

BRENT WALLACE (Ethiopia based Director & Breeding Center operator)

- **Promoter of SLICK gene Jersey genetics for efficient milk production in East Africa**
- Beef supply chain experience in Ethiopia
- Operating well developed farm for transfer of imported embryos to supply pregnant recipients

NOVEL GOPAL (Market Support & Relationships Manager)

- **Over 30 years of international experience in stakeholder management, market develop-ment, and strategic partnerships across Asia and New Zealand.**
- **Holds an MBA (University of Waikato) and M.Sc. in Physics (University of Malaya)**
- **Passionate mentor and advisor to SMEs on growth, export, and funding strategies.**

DAVE FULLERTON (Breeder)

- Partner Hi Speed Sustained Genetics
- Holstein Owner and Breeder
- Currently a top 5% producer (solids per cow) within the NZ herd
- Experience in High index Cattle breeding
- Investor in Robindale Farm and Synlait Milk

HENK SMIT (Breeder)

- MSc from Wageningen University, Holland in Animal Breeding, Animal Feeding and Agricultural Economics
- Partner Hi Speed Sustained Genetics
- Historically has been a top 1% (solids per cow) within the NZ herd
- Holstein Owner and Breeder

SHUBHENDRA SINGH
(Office Manager & Sales Admin)

- **MBM from Waikato University.**
- **Project planning and management experience in large scale projects.**

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