



2026 DAIRY SIRE CATALOGUE

ADAPTED to PERFORM in the HEAT!



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 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.

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 Purebred bloodlines are in place. We understand dairy farming profitability and we have a product for your farming system.



HOLSTEIN



KIWIPOLE™



JERSEY

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.



HOLSTEIN



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!

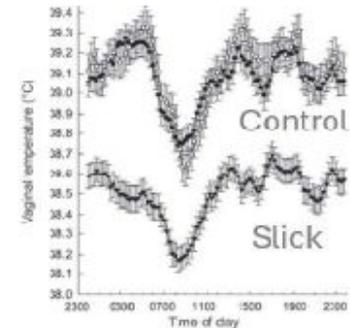
The natural variant SLICK gene protects the modern Holstein cows to enable:

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

In 2012, we were the first in the world to deliver naturally bred Dairy Type Homozygous Slick Bulls with semen available 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 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.



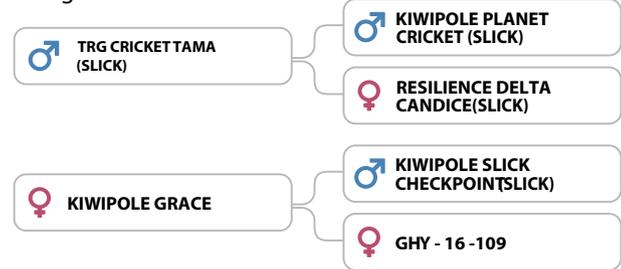
University of Florida mid Summer

KIWIPOLE TAMA GRAND



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



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



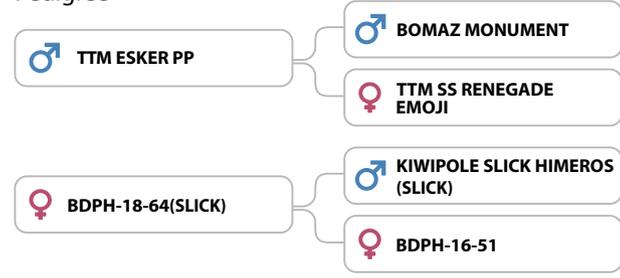
*SD - Slick Daughters

RESILIENCE ESKCEPTIONAL P



Sire Information	
Bull Code	525553
Slick Gene	Heterozygous
Breed	F13J251
Birth ID	VCVK-24-40
Born	10/08/2024
Beta Casein	A2A2
Kappa Casein	
Polled	

Pedigree



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

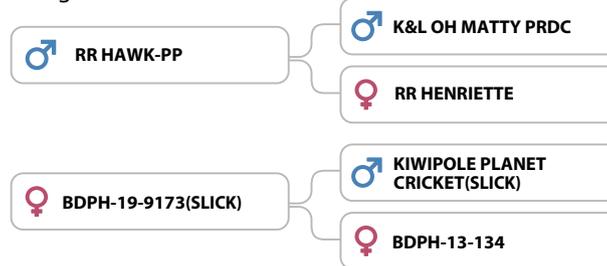
*SD - Slick Daughters

RESILIENCE MILK MACHINE P



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



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

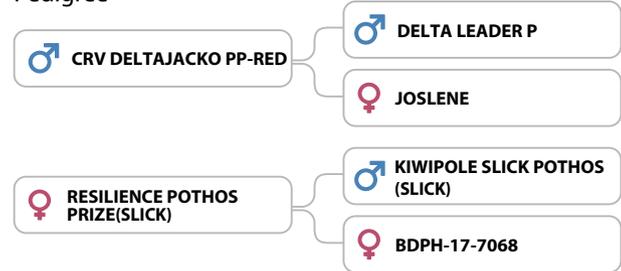
RESILIENCE JACKO PROPHET P- RED



Sire Information

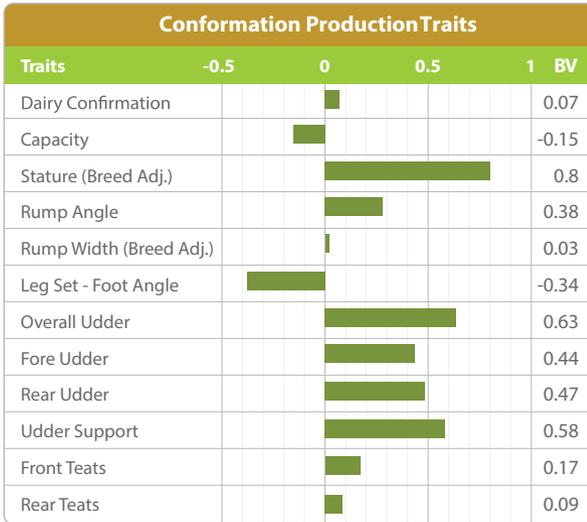
Bull Code	124775
Slick Gene	Heterozygous
Breed	F15S1
Birth ID	MDBP-22-2028
Born	21/04/2022
Beta Casein	A2A2
Kappa Casein	AA
Polled	

Pedigree



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



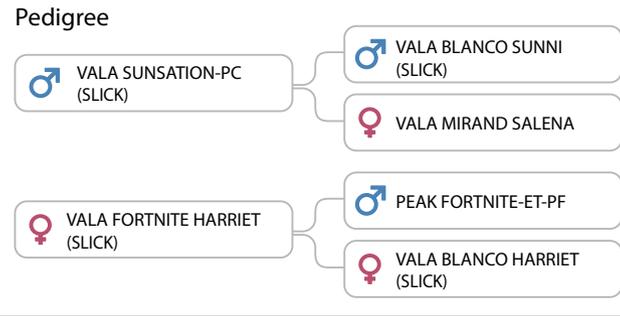
- ✓ 50% SLICK
- ✓ Daughters With Polled gene & Red
- ✓ A2 Milk
- ✓ Superb sound conformation
- ✓ 50% Polled

*SD - Slick Daughters

VALA SUNSATION HARPOON-P



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	



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				
	95	100	105	110 BV
Overall Type		█		102
Udder Overall (MAS)		█		101
Dairy Strength				100
Stature		█		102
Overall Foot & Leg		█		103
Rump Angle		█		99
Rump Width				100
Leg Set - Foot Angle (FTA)				100
Udder Depth		█		105
Fore Udder		█		102
Rear Udder		█		102
Udder Support (Center Lig.)		█		107
Front Teats		█		104
Rear Teats		█		110

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

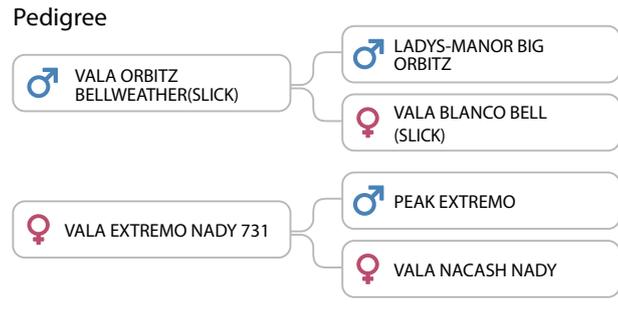


5th gen Dam: View Home Uno Hope

VALA BELLWEATHER NADY



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	



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

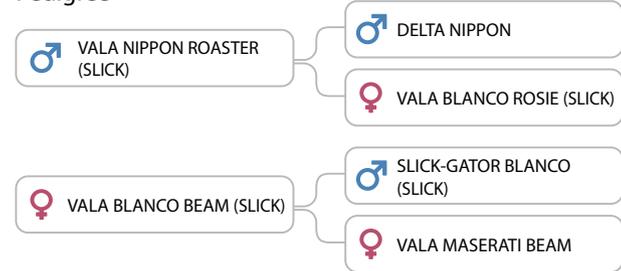
VALA ROASTER BEAMSTAR - P

AUS



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



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



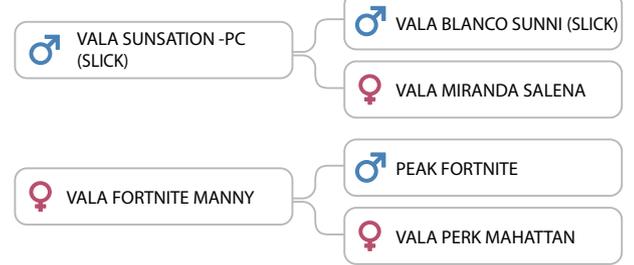
Sister of 2nd Gen Dam Maserati Beam: Stantons Bee Desired

VALA SUNSATION MANNY



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	

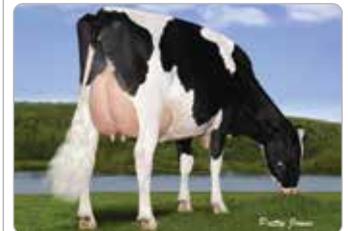
Pedigree



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

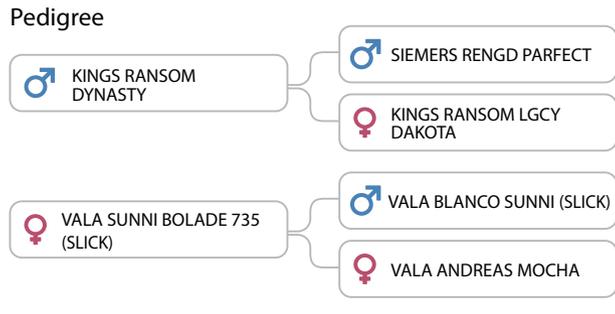
- ✓ Stylish daughters with superb udders
- ✓ Extreme high milk solids and A2A2
- ✓ Positive health and fertility traits
- ✓ From the successful SandyValley Planet Melody Cow family
- ✓ 50% of progeny will be SLICK



7th Dam - Sandy Valley Planet Melody



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



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

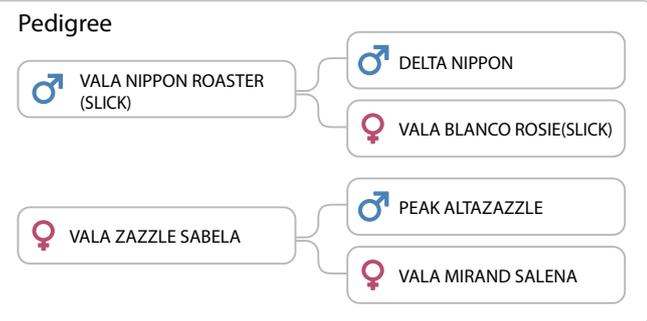


6th gen Dam: MADRE ALEXERIN SUPERSIRE 1343

VALA ROASTER SABLE-PP



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	



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

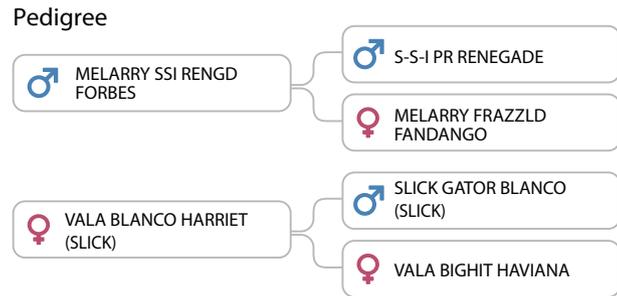
- ✓ 100% Polled calves
- ✓ Fertile production easy calving cows
- ✓ Well attached udders
- ✓ 50% of calves will be SLICK

3rd Dam - Parkhurst Powerball Salina

VALA FORBES HARRY



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	



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

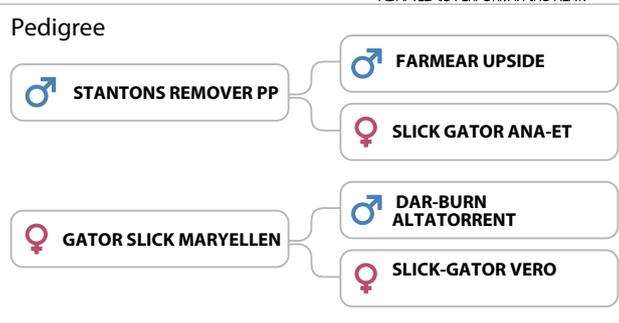
- ✓ Moderate size daughters but with very sound udders
- ✓ Good udder health
- ✓ High fertility
- ✓ A2A2
- ✓ 50% of progeny will be SLICK

7th Dam - Pine Tree Martha Sheen

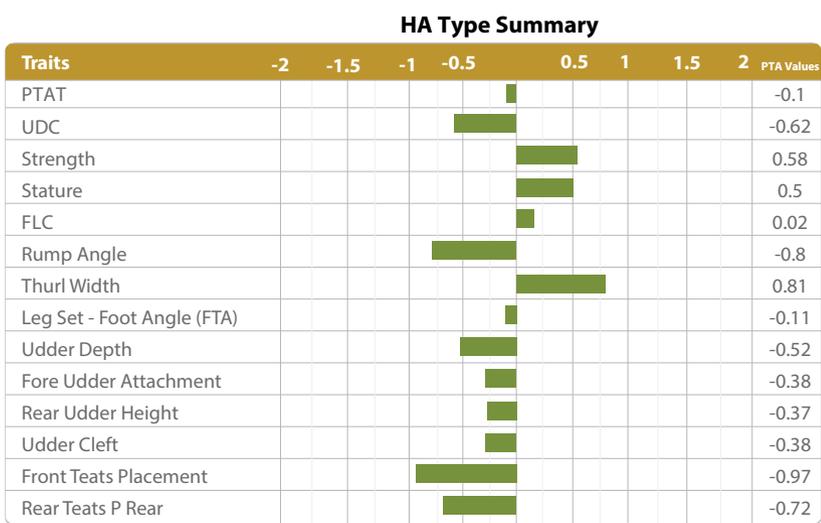
FIT PA-MA FAT MOVER-SI-P-ET



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
Horned	



Production Traits	
Traits	PTA VALUE
TPI w SLICK Boost	3794
TPI	2928
NMS	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



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

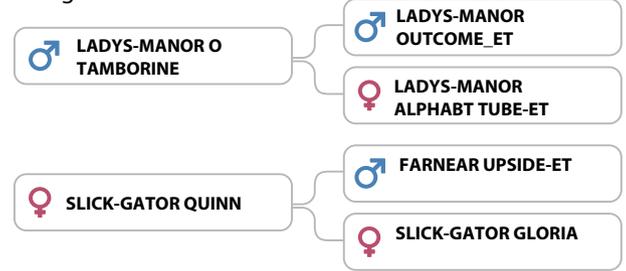
Note: This bull does not qualify for Australia.

GATOR SLICK COOL BRAD-S-ET



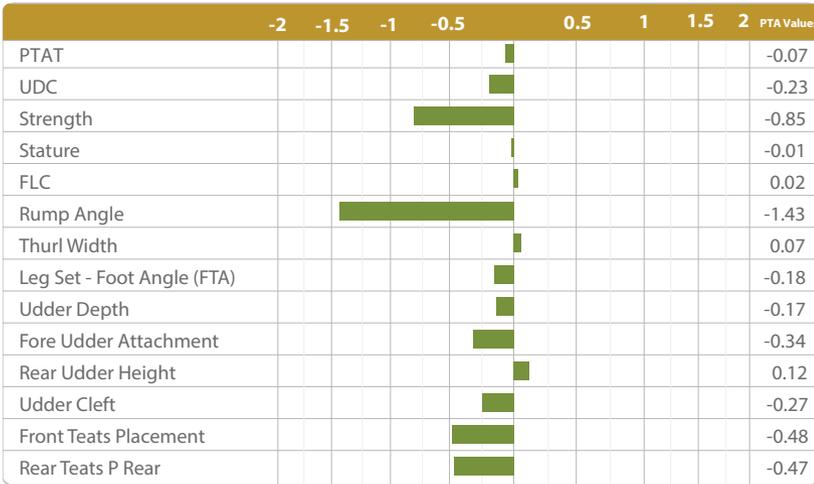
Sire Information	
NAAB Code	741 HO12503
Slick Gene	Heterozygous
Breed	Reg. Holstein
National ID	HO840003281383479
Born	13/10/2024
Beta Casein	A1A2
Kappa Casein	BB
Horned	

Pedigree



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



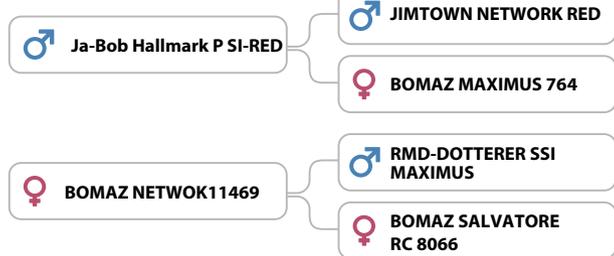
- ✓ Strong production with added fat and protein
- ✓ Feed efficient daughters with good health and fertility
- ✓ Supports sustainable, cost efficient milk production

BOMAZ FIT COOL-P-SL-RED-ET



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

Pedigree



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



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



DAM : Bomaz Delta 7173-ET VG-88



KIWIPOLE™



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!

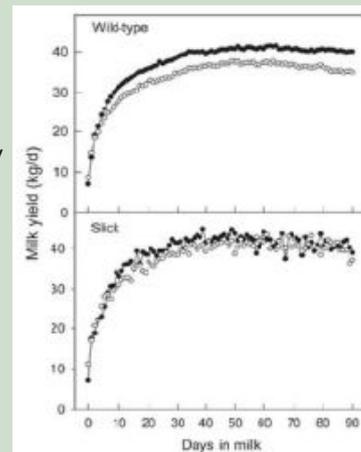
We have named our cross-bred cattles – Kiwipole™, from popular, highly selected Holstein–Friesian and Jersey genetics that are mix of Holstein and Jersey breeds with infusion from Senepol, from proven Dams.

The Kiwipole™ 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 tons of dry matter per cow p.a.). (Is it 5 tons or 5 tonnes?)

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.

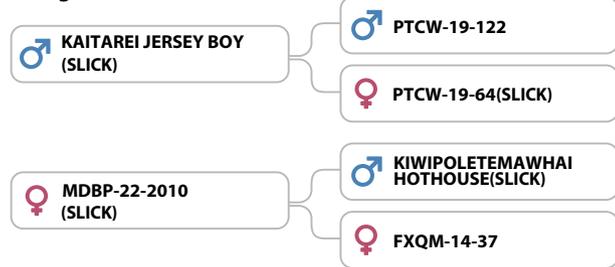


KIWIPOLETm CHEDDAR MAESTRO



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

Pedigree



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

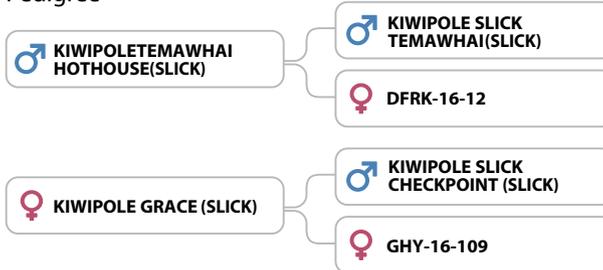
*SD - Slick Daughters

KIWIPOLE HOTHOUSE KAKAHU ET



Sire Information	
Bull Code	521707
Slick Gene	Homozygous
Breed	F10J551
Birth ID	MNJL-20-251
Born	24/07/2020
Beta Casein	A2A2
Kappa Casein	BB
Polled	

Pedigree



SD

Tropical Profit \$\$\$	698	100%
Production Traits		
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 Production Traits			
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

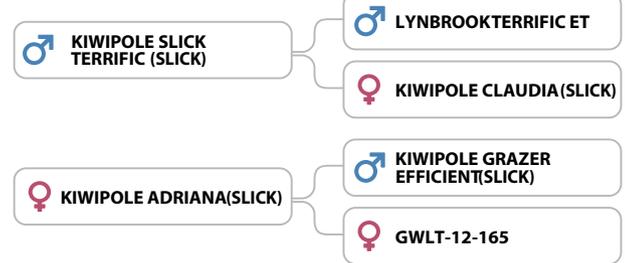
KIWIPOLE TERRIFIC MANGAWHERO



Sire Information

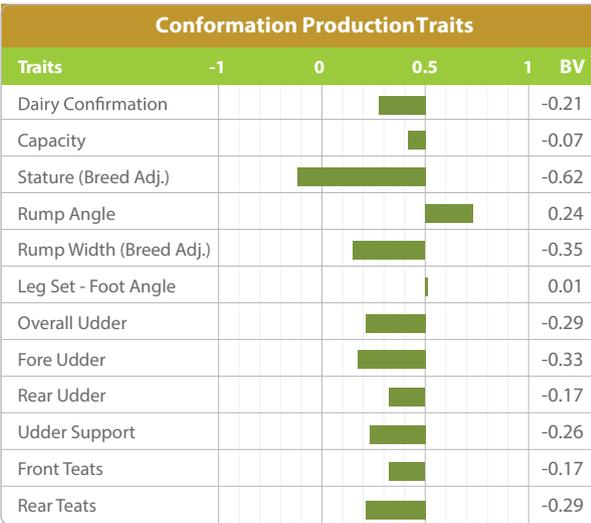
Bull Code	520711
Slick Gene	Homozygous
Breed	J10F204
Birth ID	BDPH-20-604
Born	01/04/2020
Beta Casein	A2A2
Kappa Casein	BB
Polled	

Pedigree



SD

Tropical Profit \$\$\$	283	100%
Production Traits		
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



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

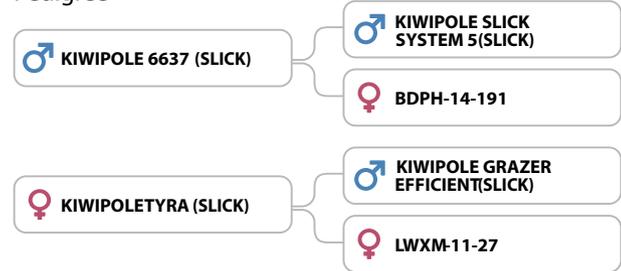
*SD - Slick Daughters

KIWIPOLE EFFICIENT WAIPIRI



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



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

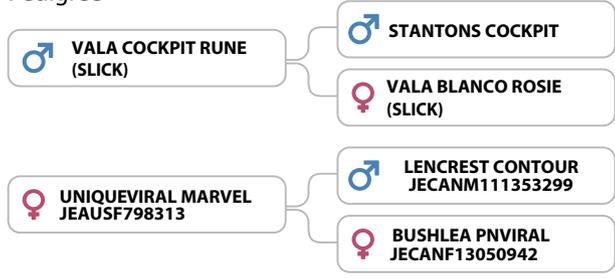
*SD - Slick Daughters

VALA RUNE MARVEL



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



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

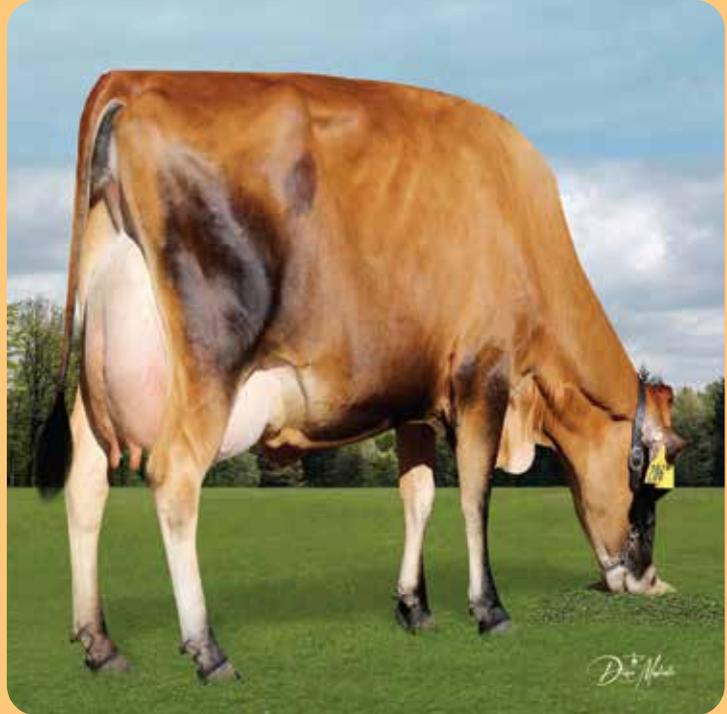


With moderate size for superb Production Efficiency, and Fertility, use SLICK Jersey to guarantee; Rich Creamy milk, Herd growth and profitability under tropical conditions.

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.

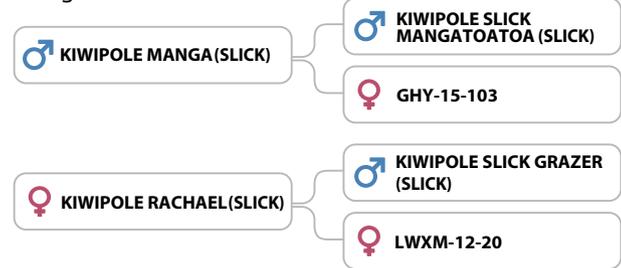


KIWIPOLE MANGA BARDOULUS



Sire Information	
Bull Code	520710
Slick Gene	Homozygous
Breed	J11F352
Birth ID	BDPH-20-503
Born	09/03/2020
Beta Casein	A1A2
Kappa Casein	BB
Polled	

Pedigree



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

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

*SD - Slick Daughters

BEEF

With the SLICK gene for Tropical Resilience



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

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 and Meat 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

COST TRAITS

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



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 Rank	\$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

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

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 Rank	\$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

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 Northern hemisphere 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.

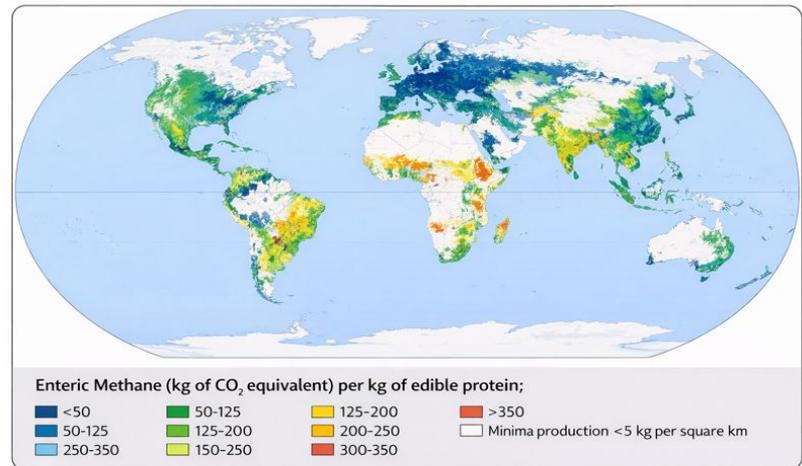


Diagram 1: Map of Intensity of Methane Emissions per kg of Meat or Milk; source FAO

Embryo Transfer Impact

INTRODUCTION of IMPROVED GENETICS

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



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



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 KiwiPoleTM 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

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

DAVID HEALD (Director)

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

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

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

BRENT WALLACE (Ethiopia based Director & Breeding Center operator)

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

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

DAVE MCEWEN (Director Finance)

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

NOVEL GOPAL (Market Support & Relationships Manager)

- Over 30 years of international experience in stakeholder management, market development, 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.

SHUBHENDRA SINGH (Office Manager & Sales Admin)

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

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