

PRESTIGE

PROGRESSIVE  
  
GENETICS



PRESTIGE  
*Charolais* 2021

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### Dear Pedigree Breeder,

Welcome to our new Prestige Charolais catalogue. The Prestige Selection is a new range of elite bulls which we at Progressive Genetics have chosen for you, the pedigree breeder. These sires have been carefully selected & represent the best Charolais genetics available globally.

The Progressive Genetics team are always available to provide professional advice to enable you to achieve the breeding goals for your herd.

Please note many of the sires featured are 'pre-order' & will not be carried by your A.I. technician, these sires should be pre-ordered from Progressive Genetics at least three weeks before the semen will be needed. You can call your local representative, order on-line from [progressivegenetics.ie](http://progressivegenetics.ie) or call the office.

The bulls labelled with a 'pedigree royalty' sticker are in the Charolais Society royalty scheme; a royalty is payable on all pedigree progeny registered from these sires in their herdbook.

*Rosalish Goulding*

Rosalish Goulding

Beef Programme Manager

National Cattle Breeding Centre



Cover: Laheens Prince ET by Goldstar Echo





Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€116	43% (Average)	★★★★★
★★★★☆	<b>Terminal Index</b>	€122	51% (Average)	★★★★☆
★★★☆☆	<b>Dairy Beef Index</b>	€1	41% (Average)	★★★☆☆
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	13.9%	28% (Low)	
	Beef Cows (% 3&4)	4.8%	68% (High)	0 Beef Records
★★★★☆	Gestation Length (days)	2.2 days	32% (Low)	★★★★☆
★★★★☆	Docility (Scale)	0.06 Scale	31% (Low)	★★★★☆
★★★★☆	Carcass Weight (Kg)	36.0 Kg	58% (Average)	★★★★☆
★★★☆☆	Carcass Conf. (Scale 1-15)	1.42 Scale	57% (Average)	★★★☆☆
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	4.5%	48% (Average)	
★★★★☆	Daughter milk (Kg)	3.0 Kg	56% (Average)	★★★★☆
★★★★☆	Daughter calving interval (d)	-2.6 days	30% (Low)	★★★★☆



Giono son



Giono daughter

- Giono is a superstar - high in growth, muscle development & milk
- Progeny are powerful, with fantastic weight gain & shape
- Progeny are classy with excellent breed character
- A definite choice for pedigree cows to improve weight gain & shape





Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★★	<b>Replacement Index</b>	€127	43% (Average)	★★★★★★
★★★★★★	<b>Terminal Index</b>	€172	53% (Average)	★★★★★★
★★★☆☆	<b>Dairy Beef Index</b>	€7	42% (Average)	★☆☆☆☆
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	12.2%	30% (Low)	0 Beef Records
	Beef Cows (% 3&4)	6.6%	62% (High)	
★★★★★★	Gestation Length (days)	1.9 days	32% (Low)	★★★★★★★
★★★★★★★	Docility (Scale)	0.06 Scale	31% (Low)	★★★★★★★
★★★★★★★	Carcass Weight (Kg)	54.8 Kg	62% (High)	★★★★★★★
★★★☆☆	Carcass Conf. (Scale 1-15)	1.68 Scale	61% (High)	★★★★★★★
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	3.2%	52% (Average)	
★★★★★★★	Daughter milk (kg)	2.3 Kg	47% (Average)	★★★★★★★
★★★★★★★	Daughter calving interval (d)	-2.7 days	31% (Low)	★★★★★★★



Son Orbi CH6490



Son Meloman CH6115

- Hamel is an excellent choice for pedigree maidens
- A very complete bull. Good on growth, shape, temperament & milk
- Hamel has sons standing in AI; Meloman CH6115 (pictured) & Orbi CH6490 (coming soon)
- MGS is Sylvaner, sire of Fleetwood FWO



# Merlin Pp PED

Code: **CH6121**

DOB: 03/11/16

HB No: CHAFRAM006950902377

Myostatin: Q204x/+

PRESTIGE  
*Charolais*



Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€97	36% (Low)	★★★★★☆☆
★★★★★☆☆	<b>Terminal Index</b>	€141	39% (Low)	★★★★★☆☆
★★★★★☆☆	<b>Dairy Beef Index</b>	€77	34% (Low)	★★★★★☆☆
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	11.6%	28% (Low)	
	Beef Cows (% 3&4)	7.3%	58% (Average)	0 Beef Records
★★★★★☆☆	Gestation Length (days)	2.7 days	30% (Low)	★★★★★☆☆
★★★★★☆☆	Docity (Scale)	0.05 Scale	30% (Low)	★★★★★☆☆
★★★★★☆☆	Carcass Weight (Kg)	43.3 Kg	39% (Low)	★★★★★☆☆
★★★★★☆☆	Carcass Conf. (Scale 1-15)	1.60 Scale	39% (Low)	★★★★★☆☆
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	3.6%	47% (Average)	
★★★★★☆☆	Daughter milk (Kg)	1.3 Kg	37% (Low)	★★★★★☆☆
★★★★★☆☆	Daughter calving interval (d)	-2.5 days	30% (Low)	★★★★★☆☆



Merlin Son



Iceberg PP

- Merlin Pp is heterozygous polled - half of calves will be polled
- Sire, Iceberg PP adds length
- Merlin Pp is being used in France, as a weanling producer, finishers bull & for replacements





Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★★	<b>Replacement Index</b>	€114	44% (Average)	★★★★★★
★★★★★★	<b>Terminal Index</b>	€157	53% (Average)	★★★★★★
★★★★★★	<b>Dairy Beef Index</b>	€65	41% (Average)	★★★★★☆☆
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	17.1%	28% (Low)	0 Beef Records
	Beef Cows (% 3&4)	7.9%	69% (High)	
★★★★★☆☆	Gestation Length (days)	1.9 days	33% (Low)	★★★★★☆☆
★★★★☆☆☆☆	Docity (Scale)	0.02 Scale	31% (Low)	★★★★☆☆☆☆
★★★★★★	Carcass Weight (Kg)	52.2 Kg	60% (High)	★★★★★★
★★★★☆☆☆☆	Carcass Conf. (Scale 1-15)	1.71 Scale	59% (Average)	★★★★☆☆☆☆
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	3.3%	51% (Average)	
★★★★★★	Daughter milk (Kg)	4.6 Kg	58% (Average)	★★★★★☆☆
★★★★★☆☆	Daughter calving interval (d)	-2.2 days	31% (Low)	★★★★★☆☆



Daughter



Daughter

- Eperany is a high performance bull from France
- Progeny have super performance, weight & shape
- He transmits excellent legs & feet
- Use on cows only, will improve skeletal development





Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★★	<b>Replacement Index</b>	€121	50% (Average)	★★★★★★
★★★★★★	<b>Terminal Index</b>	€167	69% (High)	★★★★★★
★★★★★★	<b>Dairy Beef Index</b>	€91	62% (High)	★★★★★★
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	9.5%	67% (High)	
	Beef Cows (% 3&4)	4.8%	96% (V High)	724 Beef Records
★★★★★★	Gestation Length (days)	1.8 days	97% (V High)	★★★★★★
★★★★★★	Docity (Scale)	0.10 Scale	91% (V High)	★★★★★★
★★★★★★	Carcass Weight (Kg)	42.8 Kg	69% (High)	★★★★★★
★★★★★★	Carcass Conf. (Scale 1-15)	2.19 Scale	60% (High)	★★★★★★
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	5.8%	49% (Average)	
★★★★★★	Daughter milk (kg)	2.9 Kg	37% (Low)	★★★★★★
★★★☆☆	Daughter calving interval (d)	-0.6 days	36% (Low)	★★★★★★



Daughter, Ochathain Paula 4



Lapon daughter

- Lapon has established himself as a real Superstar, high in both Terminal and Replacement Index
- Easy Calving, suitable for pedigree maidens
- A complete bull: weight, shape & correctness
- Progeny are exceptionally quiet
- Outcross pedigree





Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€128	64% (High)	★★★★★
★★★★★	<b>Terminal Index</b>	€164	77% (High)	★★★★★
★★★★★	<b>Dairy Beef Index</b>	€75	57% (Average)	★★★★★
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	8.1%	73% (High)	
	Beef Cows (% 3&4)	3.2%	95% (V High)	68 Beef Records
★★★★★	Gestation Length (days)	2.9 days	88% (V High)	★★★★★
★★★★★	Docility (Scale)	0.18 Scale	77% (High)	★★★★★
★★★★★	Carcass Weight (Kg)	44.3 Kg	82% (V High)	★★★★★
★★★★★	Carcass Conf. (Scale 1-15)	1.70 Scale	81% (V High)	★★★★★
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	4.0%	55% (Average)	
★★★★★	Daughter milk (kg)	-0.7 Kg	75% (High)	★★★★★
★★★★★	Daughter calving interval (d)	-0.8 days	40% (Average)	★★★★★



Daughter

- Artois excels in calving ease and calving ability of his daughters
- Use on well-musclled females
- Artois females are correct and functional



Seban Moynagh, Artois son, out of Sylvaner cow



Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€126	78% (High)	★★★★★
★★★★★	<b>Terminal Index</b>	€134	86% (V High)	★★★★★
★★★★★	<b>Dairy Beef Index</b>	€23	65% (High)	★★★☆☆
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	9.1%	81% (V High)	
	Beef Cows (% 3&4)	2.9%	97% (V High)	342 Beef Records
★★★★★	Gestation Length (days)	1.9 days	96% (V High)	★★★★★
★★★★★	Docility (Scale)	0.09 Scale	92% (V High)	★★★★★
★★★★★	Carcass Weight (Kg)	31.7 Kg	95% (V High)	★★★★★
★★★★★	Carcass Conf. (Scale 1-15)	1.86 Scale	94% (V High)	★★★★★
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	3.2%	70% (High)	
★★★★★	Daughter milk (kg)	5.5 Kg	86% (V High)	★★★★★
★★★★★	Daughter calving interval (d)	-1.8 days	53% (Average)	★★★★★

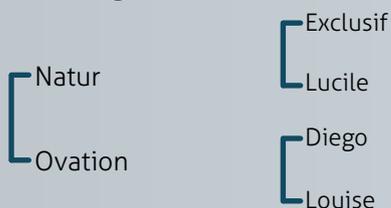


Daughter



Daughter

- Voimo has stood the test of time, as a very safe bull for pedigree maidens
- Voimo daughters make great cows, correct with excellent calving ability & milk
- Voimo ranks in the top 1% of Charolais for Daughter Milk
- Short gestation sire





Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€100	58% (Average)	★★★★★
★★★★☆	<b>Terminal Index</b>	€129	66% (High)	★★★★☆
★☆☆☆☆	<b>Dairy Beef Index</b>	-€58	52% (Average)	★☆☆☆☆
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	10.9%	46% (Average)	1 Beef Records
	Beef Cows (% 3&4)	3.7%	92% (V High)	
★★★★★	Gestation Length (days)	1.8 days	45% (Average)	★★★★★
★★★★☆	Docility (Scale)	0.04 Scale	43% (Average)	★★★★☆
★★★★☆	Carcass Weight (Kg)	31.7 Kg	73% (High)	★★★★☆
★★★★☆	Carcass Conf. (Scale 1-15)	1.79 Scale	73% (High)	★★★★☆
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	5.1%	65% (High)	
★★★★★	Daughter milk (Kg)	5.1 Kg	73% (High)	★★★★★
★★★★☆	Daughter calving interval (d)	-1.7 days	41% (Average)	★★★★☆



Sire, Pinay

- Azelier is a proven French bull all-round bull
- He will improve maternal traits without compromising on terminal traits
- Daughters make great milky, correct quiet cows
- Progeny are stylish and correct



Pinay daughter

# Culmvale Novello PED

PRESTIGE  
*Charolais*

Code: **CH5614**

DOB: 19/11/17

HB No: CHAGBRM376204300029

Myostatin: +/+ (1 F94L)



Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€152	41% (Average)	★★★★★
★★★★★	<b>Terminal Index</b>	€144	44% (Average)	★★★★★
★★★☆☆	<b>Dairy Beef Index</b>	€12	38% (Low)	★★★☆☆
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	8.5%	36% (Low)	0 Beef Records
	Beef Cows (% 3&4)	5.9%	65% (High)	
★★★★★☆☆	Gestation Length (days)	2.4 days	40% (Average)	★★★★★☆☆
★★★★☆☆	Docility (Scale)	0.01 Scale	40% (Average)	★★★★☆☆
★★★★★☆☆	Carcass Weight (Kg)	41.7 Kg	44% (Average)	★★★★★☆☆
★★★☆☆☆☆	Carcass Conf. (Scale 1-15)	1.69 Scale	41% (Average)	★★★☆☆☆☆
Expected Daughter Performance				
★★★★★☆☆	Daughter calving diff (% 3&4)	3.4%	51% (Average)	★★★★★☆☆
★★★★★☆☆	Daughter milk (kg)	6.5 Kg	41% (Average)	★★★★★☆☆
★★★★★☆☆	Daughter calving interval (d)	-2.4 days	33% (Low)	★★★★★☆☆



Sire, Thrunton Fairfax

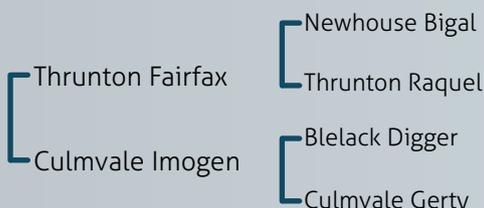


MGS, Blelack Digger



MGGS, Goldies Unbeatable

- Novello is a long correct well balanced bull sired by the 18,000gns Thrunton Fairfax and out of a Blelack Digger Dam
- Novello is ranking in the top 25% of Charolais' in the UK for Gestation Length & Calving Ease Direct (British Charolais EBV, November 2020)





# Simplify the way you work

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NEW Problem cow report

NEW Stock Reconciliation

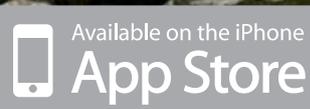
Fertility Performance Report

Calving Pattern Report

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& More..

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# Glera Oran PED

Code: **CH6310**

DOB: 08/08/18

HB No: CHAIRLM22540930147

Myostatin: +/+ (1 F94L)

PRESTIGE  
*Charolais*



Star Rating (Within Breed)	Index ICBF, Oct '20 Genotype Incl.	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€88	50% (Average)	★★★★★★
★★★★★	<b>Terminal Index</b>	€149	53% (Average)	★★★★★★
★★★☆☆	<b>Dairy Beef Index</b>	-€15	50% (Average)	★★★☆☆
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	8.9%	49% (Average)	
	Beef Cows (% 3&4)	5.6%	74% (High)	0 Beef Records
★★★☆☆	Gestation Length (days)	3.6 days	46% (Average)	★★★☆☆
★★★★★	Docility (Scale)	0.00 Scale	48% (Average)	★★★★★
★★★★★	Carcass Weight (Kg)	42.2 Kg	54% (Average)	★★★★★★
★★★★★	Carcass Conf. (Scale 1-15)	1.97 Scale	46% (Average)	★★★★★★
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	2.9%	62% (Average)	
★★★☆☆	Daughter milk (kg)	-4.7 Kg	48% (Average)	★★★☆☆
★★★★★	Daughter calving interval (d)	-3.3 days	45% (Average)	★★★★★★



Sire, Cavelands Fenian

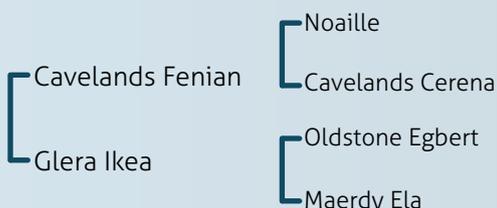


Maternal sister, Glera Princess



Dam, Glera Ikea

- Glera Oran is a really exciting new bull by Fenian
- Intermediate champion at the Christmas Cracker 2019
- Oran comes from a proven dam line, the reserve intermediate champion at the 2019 Christmas Cracker came from the same family



# Agrochyt Demon PP PED

Code: **CH5482**

DOB: 09/09/17

HB No: Cz391000012088064

Myostatin: +/+

PRESTIGE  
*Charolais*



Star Rating (Within Breed)	Index ICBF, Oct '20 Genotype Incl.	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€47	35% (Low)	★★★★★
★★★★★	<b>Terminal Index</b>	€85	37% (Low)	★★★★★
★★★★★	<b>Dairy Beef Index</b>	-€37	38% (Low)	★★★★★
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	12.3%	28% (Low)	2 Beef Records
	Beef Cows (% 3&4)	7.6%	63% (High)	
★★★★★	Gestation Length (days)	3.0 days	31% (Low)	★★★★★
★★★★★	Docility (Scale)	-0.01 Scale	30% (Low)	★★★★★
★★★★★	Carcass Weight (Kg)	21.9 Kg	34% (Low)	★★★★★
★★★★★	Carcass Conf. (Scale 1-15)	1.52 Scale	34% (Low)	★★★★★
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	5.5%	47% (Average)	
★★★★★	Daughter milk (kg)	-1.2 Kg	33% (Low)	★★★★★
★★★★★	Daughter calving interval (d)	-1.2 days	30% (Low)	★★★★★



Paternal brother, Milan SC, son of Japon



MGS, Unico SC



Sister,  
Japon  
daughter

- Homozygous polled - all the progeny will be polled
- Champion at the National Show in his home country Czech Republic in 2018
- Junior Champion Simagena Show in Paris 2019
- Demon is a long, correct bull from an excellent family





Star Rating (Within Breed)	Index ICBF, Oct '20 Genotype Incl.	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€85	57% (Average)	★★★★★
★★★☆☆	<b>Terminal Index</b>	€111	80% (V High)	★★★★★
★★★★★	<b>Dairy Beef Index</b>	€39	64% (High)	★★★★★
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	13.5%	68% (High)	
	Beef Cows (% 3&4)	7.2%	98% (V High)	1100 Beef Records
★★★★★	Gestation Length (days)	2.7 days	98% (V High)	★★★★★
★★★☆☆	Docility (Scale)	-0.03 Scale	96% (V High)	★★★★★
★★★★★	Carcass Weight (Kg)	33.1 Kg	84% (V High)	★★★★★
★★★★★	Carcass Conf. (Scale 1-15)	1.92 Scale	80% (V High)	★★★★★
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	3.2%	52% (Average)	
★★★★★	Daughter milk (kg)	3.2 Kg	43% (Average)	★★★★★
★★★★★	Daughter calving interval (d)	-1.2 days	41% (Average)	★★★★★



Sire, Castor



Sister, Castor daughter

- His pedigree is a sire stack of proven superior maternal sires; Castor, Tombapik and Populair
- We look forward to his first daughters calving down
- A high milk pedigree



# Enfield Hara Kiri PED

Code: **HKI**  
 DOB: 12/03/92

HB No: CHAFRAM008592106619

Myostatin:

PRESTIGE  
*Charolais*



Star Rating (Within Breed)	Index ICBF, Oct '20 Genotype Incl.	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€54	98% (V High)	★★★★★
★★★★★	<b>Terminal Index</b>	€140	96% (V High)	★★★★★
★★★★★	<b>Dairy Beef Index</b>	€24	88% (V High)	★★★★★
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	11.6%	95% (V High)	
	Beef Cows (% 3&4)	5.4%	99% (V High)	605 Beef Records
★★★★★	Gestation Length (days)	4.0 days	99% (V High)	★★★★★
★★★★★	Docility (Scale)	0.03 Scale	99% (V High)	★★★★★
★★★★★	Carcass Weight (Kg)	34.0 Kg	99% (V High)	★★★★★
★★★★★	Carcass Conf. (Scale 1-15)	1.84 Scale	99% (V High)	★★★★★
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	6.7%	98% (V High)	
★★★★★	Daughter milk (kg)	0.4 Kg	99% (V High)	★★★★★
★★★★★	Daughter calving interval (d)	1.0 days	98% (V High)	★★★★★

Son, Hollowtree Nikolas

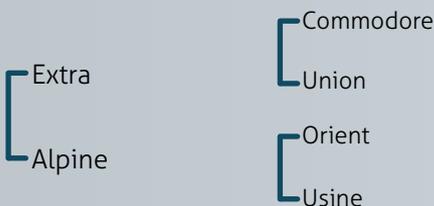


Grand son, Derrylam Impeccable



Son, Cloughbrack Invincible

- Hara Kiri has lasted the test of time
- He has proven himself as a producer of great breeding females
- An all-rounder; good males & females





Star Rating (Within Breed)	Index ICBF, Oct '20 <small>Genotype Incl.</small>	€ Value	Rel	Star Rating (Across Breed)
★★★★★	<b>Replacement Index</b>	€91	96% (High)	★★★★★
★★★☆☆	<b>Terminal Index</b>	€109	93% (V High)	★★★★★
★☆☆☆☆	<b>Dairy Beef Index</b>	-€89	90% (V High)	★☆☆☆☆
Expected Progeny Performance				
Calving Difficulty	Beef Heifers (% 3&4)	12.5%	97% (V High)	
	Beef Cows (% 3&4)	5.2%	99% (V High)	5610 Beef Records
★★★★★	Gestation Length (days)	1.8 days	99% (V High)	★★★★★
★★★★★	Docility (Scale)	0.05 Scale	99% (V High)	★★★★★
★★★☆☆	Carcass Weight (Kg)	28.2 Kg	99% (V High)	★★★★★
★★★☆☆	Carcass Conf. (Scale 1-15)	1.53 Scale	99% (V High)	★★★★★
Expected Daughter Performance				
	Daughter calving diff (% 3&4)	3.7%	97% (V High)	
★★★★★	Daughter milk (kg)	-4.2 Kg	99% (V High)	★★★☆☆
★★★★★	Daughter calving interval (d)	-5.6 days	99% (V High)	★★★★★



Son, Tullyvillage Jameson



Daughter, Culla Limo

- Nippur has been a great favourite for Irish breeders
- Easy calving, suitable for maidens
- Well-balanced correct progeny



## Myostatin Gene

**Myostatin Variants**  
"Double Muscle", reduced fat  
Possibly Harder Calvings,

**Non-Disruptive Variants**  
Identified as +/-  
F94L, S105C, D182N



**Disruptive Variants**  
nt821, Q204X, C313Y,  
E226X, E291X, NT419



### F94L

Common in Limousin  
More Muscle, No  
adverse effect on  
Calving

### nt821

Most common in Belgian  
Blue & Parthenaise  
Higher Muscle, less fat  
Slightly heavier birth  
weight & lower calving  
ability

### Q204X

Most common in Charolais  
Higher Muscle, less fat  
Heavier birth weight &  
lower calving ability/Milk

## Myostatin Carriers

**Homozygous  
Non-disruptive**  
+/  
No disruptive  
effects

**Heterozygous  
Disruptive**  
nt821/+,  
Q204X/+  
Some effects

**Homozygous  
Disruptive**  
nt821/nt821,  
Q204X/Q204X,  
Q204X/nt821  
Noticeable effects

muscling may result in increased birth weights & reduced calving ability of females.

A Myostatin genotype is a further item of information that will help you achieve your breeding goals, when used in conjunction with the index, knowledge of the pedigree & visual assessment.

**The status of our sires is available in the catalogue & online.** In line with our policy of providing all of the information we have available on our sires, we have printed the Myostatin status of all of our bulls in our beef catalogues for the past year.

The status of your females can be ascertained through genotyping. Knowing the status of both parents helps you, the breeder, to tailor the desired outcome of a mating to your preference.

## Help your AI technician, do the job for you!

### Proper Restraint

Proper placement of the semen is one of the main factors influencing success rate. Placement is a very specific procedure, it is crucial that the cow is properly restrained to maximise success. Proper restraint means that side to side, forward & backward movement are minimized. Concentration is required for precision, please avoid speaking with the technician as the insemination is being carried out.

### Safety

To ensure adequate restraint & the comfort & safety of man & beast, the crush should have a non-slip floor.

Avoid penning a suckler cow/heifer on her own for AI as she may become stressed & difficult to handle & inseminate.

### Timing Of AI

The best time to inseminate a cow is when she is in standing heat & up to twelve hours later. If it is longer than twelve hours after the end of standing heat the results from A.I. will be reduced.

The Myostatin (MH) gene is a recessive gene found in all mammals & influences the production of a protein that controls muscle development. Natural mutations cause a deletion in the bovine myostatin so the muscles keep growing, resulting in the double-muscléd phenotype.

### Effects Of Myostatin

The carcasses of double-muscléd cattle kill out up to 19% higher than cattle that don't exhibit double muscling. This is due to a combination of increased muscle mass, reduced body fat, reduced bone mass & smaller internal organs. When muscle weight gain per unit energy intake is taken in to account, double-muscléd cattle have better feed efficiency. Meat from double-muscléd cattle tends to be of better quality due to a combination of increased tenderness, reduced fat content & a higher proportion of polyunsaturated fats.

The presence of Myostatin mutations has a beneficial effect on the carcass traits. However, difficulties may occur when carriers of the six disruptive MH variants are mated to each other leading to the potential for calving difficulty as a result of increased birth weight/compromised calving ability. This however can be avoided through knowledge of the status of both the male & the female in the mating.

### Variants

Variant F94L, sometimes called 'the profit gene' has a high frequency in Limousin cattle; many have two copies i.e. are homozygous. This variant has been found to increase the size of muscle fibres with no associated increase in calving difficulty, or lowered fertility or longevity (non-disruptive).

Variant nt821 is commonly found in the Belgian Blue & Parthenaise breeds with lower frequency occurring in the Limousin, Shorthorn & Angus breeds. Homozygous animals exhibit: greater loin depths, large rounded rump & thighs, reduced fat cover & greater meat tenderness. However, unlike F94L, homozygous animals may also have slightly heavier birth weights & compromised calving ability in the females. Heterozygous animals (nt821/+) exhibit the above characteristics albeit to a lesser extent.

Variant Q204X is commonly found in the Charolais breed & with lower frequency in the Limousin breed. Homozygous animals exhibit: greater loin depths, large rounded rump & thighs, reduced fat cover & greater meat tenderness. However, they may also have heavier birth weights & slightly reduced milking ability & calving ability in females. Heterozygous animals (Q204X/+) exhibit the above characteristics albeit to a lesser extent.

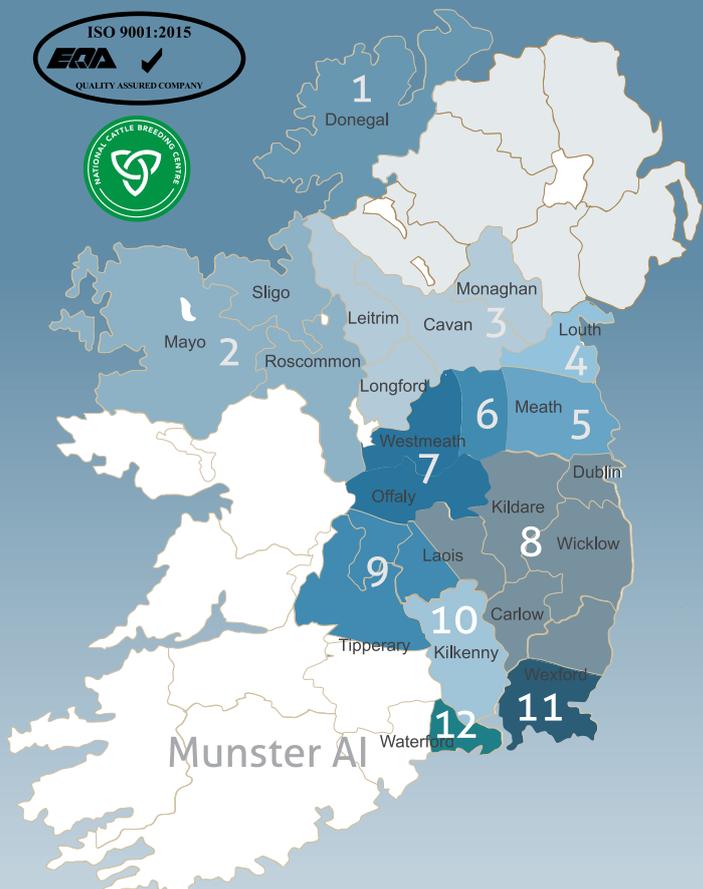
### Recommendations

Genotype all of your females. The myostatin status can be ascertained by Weatherbys once the genotype has been done.

If you want a MH-free herd (+/+), eliminate the carrier breeding females & use non-carrier sires only.

If you want to reap the improved carcass benefits of MH+ animals whilst limiting the negative aspects, then work with heterozygous animals e.g. (nt821/+), (Q204X/+). Do not mate heterozygous males with heterozygous females. Mate noncarrier females with heterozygous/homozygous bulls. Continue to genotype both breeding females & males to establish the MH status pre-breeding. In addition, assess calving ability of the female using visual assessment & the daughter calving index.

If you want to breed animals with extreme muscling use homozygous bulls with heterozygous/homozygous females. Beware that the extra



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