

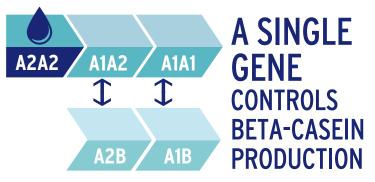
a2 A2A2

BETA-CASEIN GENE INFLUENCES PRODUCTION OF MILK PROTEIN CASEIN WHICH HAS A1 & A2 VARIANTS

A2 MILK IS POTENTIALLY LINKED TO HEALTH BENEFITS ASSOCIATED WITH:



Laugesen and Elliott 2003, McLachlan 2001, Woodford 2006.



* B is a variant within the gene that can be inherited along with A1. For simplicity sake, it can be considered the same as A1.

S. Kaminski 2007 Journal of Applied Genetics.

A2A2 SIRE 100% A2A2 Produce 100% of A2 milk 50% A1A2 Produce 50% A1 milk & 50% A2 milk

Herds can convert to 100% A2 milk within 4 years using intensive selection.



A2 MILK IS SELLING AT A PREMIUM

HEALTH BENEFITS ARE STILL BEING DEBATED IN THE RESEARCH COMMUNITY



A2 variant is becoming more common in Holstein sires

68 SEMEX A2A2 SIRES

>2800 GTPI

April 202

Homozygous A2A2 Carrier Sires