A2A2

A2A2 sires increase the prevalence of A2 milk on my dairy.

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

A2 MILK IS POTENTIALLY LINKED TO HEALTH BENEFITS ASSOCIATED WITH:



Autoimmune Disease



Heart Disease

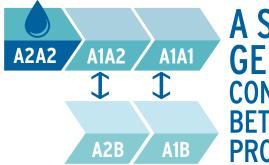


Type 1 Diabetes



Neurological Impairment on Autism & Schizophrenia

Laugesen and Elliott 2003, McLachlan 2001, Woodford 2006.



A SINGLE
GENE
CONTROLS
BETA-CASEIN
PRODUCTION

* 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.



Holstein Canada, 2015

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

HEALTH BENEFITS ARE STILL BEING DEBATED IN THE RESEARCH COMMUNITY



A2 MILK IS SELLING AT A PREMIUM



A2 variant is becoming more common in Holstein sires.

24 SEMEX A2A2 SIRES

>2500 GTPI

December 2015



Genetics for Life®