

GENETIC TRAITS AND CARRIER CODES

C = carrier

F = tested free or non-carrier

S = tested true carrier (homozygous)

Master List of Genetic Codes and Carrier Codes

Gene Name	Description	Gene and Expression Code
BLAD	Bovine Leukocyte Adhesion Deficiency (deficiency of a normally occurring protein needed for white blood cells or leukocytes, which are body's infection fighters)	BLC = tested carrier of BLAD BLF = tested non-carrier of BLAD
Mule foot	Mule-Foot (toes of foot are joined, giving animal a single hoof, instead of cloven ones)	MFC = tested carrier of Mule foot MFF = tested non-carrier of Mule foot
DUMPS	Deficiency of Uridine Monophosphate Synthase (one of many enzymes contributing to normal metabolic processes)	DPC = tested carrier of DUMPS DPF = tested non-carrier of DUMPS
CVM	Complex Vertebral Malformation (causes still-born calves, abortions, and early embryonic losses)	CVC = tested carrier of CVM CVF = tested non-carrier of CVM
Factor X1	Factor X1 (blood clotting disorder)	XIC = tested carrier of Factor X1 XIF = tested non-carrier of Factor X1
CIT	Citrullinemia (accumulation of ammonia and other toxics in blood in baby calves)	CNC = tested carrier of Citrullinemia CNF = tested non-carrier of Citrullinemia
Brachyspina	Brachyspina (causes abortion and stillborn, shortened spinal cord, long legs and abnormal organs)	BYC = tested carrier of Brachyspina BYF = tested non-carrier of Brachyspina



Polled	Animals without horns (reported born hornless - Not Tested).	POR = coded by owner, no genetic test
Polled (Current-Indirect Test)	Indirect Test	POS = tested true polled (homozygous PP) POC = tested carrier of polled (heterozygous Pp) POF = tested free of polled
Polled (Future)	When a direct test becomes available. Direct test code will "trump" test code on animal record	
Cholesterol Deficiency	Cholesterol Deficiency	CDF = tested non-carrier / free of cholesterol deficiency CDC = tested carrier of cholesterol deficiency (heterozygous) CDS = tested true carrier of cholesterol deficiency (homozygous)
Early Onset Muscle Weakness		MWF = tested non-carrier / free of Early Onset Muscle Weakness MWC = tested carrier of Early Onset Muscle Weakness (heterozygous) MWS = tested true carrier of Early Onset Muscle Weakness (homozygous)

Suggested Genetic Conditions under Investigation

Gene Name	Description	Gene and Expression Code
BLIRD	Bovine Lymphocyte Intestinal Retention Defect	LRF = tested non-carrier / free of BLIRD LRC = tested carrier of BLIRD (heterozygous) LRS = tested true carrier of BLIRD (homozygous)
SLICK	S plus a variant number	