

List of genetic traits Beef cattle												
Breed	Scientific name	Trait	Not carrier of defect/trait		Single carrier of defect/trait			Double carrier of defect/trait			Test	
			Code	Result	Code	Result	Phenotype	Code	Result	Phenotype	Lab	Genomic test
BEEF	Progressive retinal degeneration (RP1)	RP1	RP1F	Free	RP1C	Carrier	Normal	RP1S	Carrier	Progressive blindness		X
AAN	Arthrogryposis multiplex congenita (Curly calf)	Curly Calf	A1F	Free	A1C	Carrier	Normal	(A1S)		Physical malformation, stillborn		
AAN	Neuropathic Hydrocephalus	NH	NHF	Free	NHC	Carrier	Normal	(NHS)		Embryonic death		
AAN	Developmental Duplication	DD	DDF	Free	DDC	Carrier	Normal	DDS	Carrier	Embryonic death/physical malformation, stillborn		X
AAN	Contractural arachnodactyly (Fawn calf syndrome)	Fawn calf syndrome	CAF	Free	CAC	Carrier	Normal	CAS	Carrier	Physical malformation of the limbs		
BAQ	Axonopathy (Congenital Neurodegeneration)	AX	AXF	Free	AXC	Carrier	Normal	(AXS)		Lethal at birth	X	
BAQ, LIM	Protoporphyria	PR	PRF	Free	PRC	Carrier	Normal	PRS	Carrier	Photosensitivity plus rashes and sores on the skin		X
CHA	Anhidrotic ectodermal dysplasia (AED)	AED	ADF	Free	ADC	Carrier	Normal	ADS	Carrier	Lack af hair and teeth		
CHA	Progressive Ataxia	Ataxia	PAF	Free	PAC	Carrier	Normal	PAS	Carrier	Progressive loss of limb function	X	X
DXT	Chondrodysplasia, BD1 (Bulldog)	BD1 (Bulldog)	B1F	Free	B1C	Carrier	Normal	(B1S)		Physical malformation, Stillborn	X	
DXT	Chondrodysplasia, BD2 (Bulldog)	BD2 (Bulldog)	B2F	Free	B2C	Carrier	Normal	(B2S)		Physical malformation, Stillborn		
HER	Hypotrichosis	Hypotrichosis	HYF	Free	HYC	Carrier	Normal	HYS	Carrier	Lack of hair growth	X	X
HER	Idiopathic epilepsy (IE)	Idiopatic Epilepsy	IEF	Free	IEC	Carrier	Normal	IES	Carrier	Lethal after birth		
HER	Maple Syrup Urine Disease	MSUD	MSU1F	Free	MSU1C	Carrier	Normal	(MSU1S)		Dies within few days of birth		X
HER	Mandibulofacial dysostosis	MD	MDF	Free	MDC	Carrier	Normal	MDS	Carrier	Physical malformation of the head		X
HLA	Crop ear	Crop ear	CEF	Free	CEC	Carrier	Malformed ears	CES	Carrier	Malformed ears	X	
LIM	Cleft palate	CP	CPF	Free	CPC	Carrier	Normal	CPS	Carrier	Physical malformation of the palate		
SIM	Thrombopathia	TP	TPF	Free	TPC	Carrier	Normal	TPS	Carrier	Decreased blood coagulation, risk of bleeding		X
SIM	Brown Swiss Haplotype 2 (BH2)	BH2	BH2F	Free	BH2C	Carrier	Normal	(BH2S)		Lethal at/after birth		X
BEEF	Polled	Polled	POF	Free	POC	Carrier	Hornless	POS	Carrier	Hornless	X	X
BEEF	Dilutor (coat colour dilution)	Dilutor	DLF	Free	DLC	Carrier	Colour dilution	DLS	Carrier	Colour dilution		
BEEF	Red factor	Red factor	RDF	Free	RDC	Carrier	Black coat colour	RDS	Carrier	Red coat colour	X	X
ALL	Twin test	Twin test									X	
	Muscular hypertrophy (myostatin mutations)											
BEEF	nt821	M1-myostatin-nt821	M1F		M1C			M1S			X	X
BEEF	nt419	M2-myostatin-nt419	M2F		M2C			M2S				
BEEF	Q204x	M3-myostatin-Q204x	M3F		M3C			M3S				X
BEEF	E226X	M4-myostatin-E226X	M4F		M4C			M4S				
BEEF	3811T	M5-myostatin-3811T	M5F		M5C			M5S				
BEEF	C313Y	M6-myostatin-C313Y	M6F		M6C			M6S				X
BEEF	F94L	M7-myostatin-F94L	M7F		M7C			M7S			X	X
BEEF	E291X	M8-myostatin-E291X	M8F		M8C			M8S				
BEEF	D182N	M9-myostatin-D182N	M9F		M9C			M9S				
BEEF	S105C	M10-myostatin-S105C	M10F		M10C			M10S				