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RALLEE® Certified Genetic Test Requisition Form

I. Client (Owner) Information

First Name _____ Last Name _____

Email Address _____ Primary Phone _____

Mailing Address _____ Country _____

City _____ State _____ Zip/Postal Code _____

Additional Final Report Access:
List up to 3 other people who are approved to receive and discuss the final report with MoxxiTech LLC.

First Name _____ Last Name _____

Email Address _____ Primary Phone _____

First Name _____ Last Name _____

Email Address _____ Primary Phone _____

First Name _____ Last Name _____

Email Address _____ Primary Phone _____

II. Patient (Animal) Information

Name or Unique ID _____ Date of Birth _____

Sex _____ Species _____ Breed _____

If any relatives have also been tested, please list their information here:

Name or Unique Identifier _____ Date of Birth _____

Sex _____ Date Tested _____ RALLEE ID _____

Name or Unique Identifier _____ Date of Birth _____

Sex _____ Date Tested _____ RALLEE ID _____

Name or Unique Identifier _____ Date of Birth _____

Sex _____ Date Tested _____ RALLEE ID _____

Name or Unique Identifier _____ Date of Birth _____

Sex _____ Date Tested _____ RALLEE ID _____

III. Veterinary Office Information

Veterinary Clinic _____ Phone _____

Mailing Address _____ Country _____

City _____ State _____ Zip/Postal Code _____

Submitting Veterinarian _____

Email Address _____ Phone _____

IV. Billing

Bill To: ☐ Client ☐ Veterinary Office ☐ Prepaid: Invoice # _____

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V. Testing Information

Patient History - Use the space below to list any symptoms and current or suspected diagnosis; attach relevant medical charts as necessary. ***Medical history required if requesting a Custom Panel

Age at Inital Symptom Presentation or Diagnosis: _____

Family History - If there is any known family history of disease, please list below

Relationship to Patient _____ Diagnosis _____

Relationship to Patient _____ Diagnosis _____

Relationship to Patient _____ Diagnosis _____

Relationship to Patient _____ Diagnosis _____

RALLEE® Certified Genetic Test Panel Selection

View our test panels on page 3-5 or online at moxxitech.com

Canine	Equine	Feline	Bovine
☐ Panel 1	☐ Panel 1	☐ Panel 1	☐ Panel 1
☐ Panel 2	☐ Panel 2	☐ Panel 2	☐ Panel 2
☐ Panel 3	☐ Custom Panel	☐ Panel 3	☐ Panel 3
☐ Custom Panel		☐ Custom Panel	☐ Custom Panel

Please note any special requests here:

Date of Sample Collection _____

By signing this form, the veterinarian confirms that the information provided is accurate to their knowledge, the sample provided to MoxxiTech LLC belongs to the described Patient, and the Client has all legal rights to obtain genetic testing for the Patient. The veterinarian acknowledges that sample processing will not begin until payment is received by MoxxiTech LLC.

Veterinarian Signature _____ Date _____

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CANINE RALLEE® Certified Genetic Test Panels

Panel 1: Drug Metabolism, Hearing, Nervous System, Vision

Number of Alleles Tested: 174

Condition	Gene(s)
AC-3933 Poor Metabolizer	CYP1A2
Achromatopsia 1-4	CNGA3, CNGB3
Acral Mutilation Syndrome	GDNF
Alexander Disease	GFAP
Beta Mannosidosis 1, 2	MANBA
Bilateral Deafness and Vestibular Dysfunction	MYO7A
Cerebellar Ataxia 1,2	RAB24, KCNIP4
Cerebellar Cortical Degeneration	SNX14
Cerebellar Hypoplasia	VLDLR
Collie Eye Anomaly	NHEJ1
Cone Rod Dystrophy, Age of Onset Modifier	MAP9
Cone-Rod Dystrophy 1-4	NPHP4, IQCB1, RPGRIP1
Congenital Eye Malformations	SIX6
Congenital Myasthenic Syndrome 1-5	CHAT, CHRNE, COLQ
Copper Toxicosis	COMMD1
Deafness, Unilateral and Vestibular Dysfunction	PTPRQ
Degenerative Myelopathy	SOD1
Demyelinating Peripheral Neuropathy	SBF2
Dermoid Sinus	FGF3
Early Onset Cataracts 1, 2	HSF4
Early Retinal Degeneration	STK38L
Epileptic Drug Resistance	ABCB1
Episodic Falling Syndrome	BCAN
Fetal Onset Neuroaxonal Dystrophy	MFN2
Fucosidosis Alpha	FUCA1
Gangliosidosis 1-3	GLB1
Generalized Myoclonic Epilepsy	DIRAS1
Generalized Progressive Retinal Atrophy 1, 2	ADAM9, CCDC66
Globoid Cell Leukodystrophy 1, 2	GALC
GM2 Gangliosidosis Type I	HEXA
GM2 Gangliosidosis Type II 1, 2	HEXB
Hepatic Copper Toxicosis	ATP7B
Hyperekplexia 1, 2	SLC6A5
Hypomyelination of Central Nervous System	FNIP2
Hypophosphatasia	ALPL
Ivermectin Sensitivity 1, 2	ABCB1
L-2-Hydroxyglutaric Aciduria 1, 2	L2HGDH
Lagotto Storage Disease	ATG4D
Laryngeal Paralysis Risk Factor	RAPGEF6
Leber Congenital Amaurosis	RPE65
Leukodystrophy 1, 2	CYTB, TSEN54
Leukoencephalopathy 1, 2	NAPEPLD
Macular Corneal Dystrophy	LOC489707
Merle/Cryptic Merle	PMEL
Micropthalmia	RBP4
Mucopolysaccharidosis Type I	IDUA
Mucopolysaccharidosis Type IIIA 1, 2	SGSH
Mucopolysaccharidosis Type IIIB 1, 2	NAGLU
Multifocal Retinopathy 1 1, 2	BEST1
Multifocal Retinopathy II	BEST1
Multifocal Retinopathy III 1, 2	BEST1
Myoclonus Epilepsy of Lafora	NHLRC1
Myotubular Myopathy 1, 2	MTM1
Narcolepsy 1-3	HCRTR2
Necrotising Encephalopathy	SLC19A3
Neonatal Cerebellar Ataxia	GRM1
Neonatal Encephalopathy With Seizures	ATF2
Neuroaxonal Dystrophy 1-3	PLA2G6, TECPR2, VPS11
Neuronal Ceroid Lipofuscinosis 1	PPT1
Neuronal Ceroid Lipofuscinosis 2	TPP1
Neuronal Ceroid Lipofuscinosis 3	PPT1
Neuronal Ceroid Lipofuscinosis 4A 1	ARSG
Neuronal Ceroid Lipofuscinosis 5 1, 2	CLN5
Neuronal Ceroid Lipofuscinosis 6	CLN6
Neuronal Ceroid Lipofuscinosis 7	MFSD8
Neuronal Ceroid Lipofuscinosis 8 1-4	CLN8
Neuronal Ceroid Lipofuscinosis 10	CTSD
Neuronal Ceroid Lipofuscinosis 12 1, 2	ATP13A2
Oculocutaneous Albinism	OCA2
Oculocutaneous Albinism Type IV 1-3	SLC45A2
Oculoskeletal Dysplasia I 1, 2	COL9A3
Oculoskeletal Dysplasia II	COL9A2
Osteochondromatosis	EXT2
Paroxysmal Dyskinesia	PIGN
Periodic Fever Syndrome	MTBP
Photoreceptor Dysplasia	PPT1
Polyneuropathy 1-6	NDRG1, RAB3GAP1, ARHGEF10, GJA9
Pompe Disease	GAA
Primary Glaucoma 1, 2	ADAMTS10
Primary Lens Luxation	ADAMTS17
Primary Open Angle Glaucoma 1-3	ADAMTS17
Primary Open Angle Glaucoma and/or Primary Lens Luxation	ADAMTS17
Progressive Early Onset Cerebellar Ataxia	SEL1L
Progressive Retinal Atrophy 1-10	BBS4, HIVEP3, CNGA1, CNGB1, MERTK, NECAP1, SAG1, SLC4A3, TTC8, RHO
Progressive Retinal Atrophy Type 2	C17H2orf71
Progressive Retinal Atrophy X-Linked Type 1, 1-3	RPGR
Progressive Retinal Atrophy X-Linked Type 2	RPGR
Progressive Rod-Cone Degeneration (PRCD-PRA)	PRCD
Protection Against Liver Copper Accumulation	ATP7A
Refractory Idiopathic Epilepsy	ABCB1
Remitting Focal Epilepsy	LGI2
Rod-Cone Dysplasia Type 1, 1-4	PDE6B
Rod-Cone Dysplasia Type 3	PDE6A
Selective Cobalamin Malabsorption 1-3	CUBN
Sensory Ataxic Neuropathy	tRNA-TYR
Sensory Neuropathy	FAM134B
Spinal Dyraphism	NKX2-8
Spinocerebellar Ataxia 1-7	SCN8A, KCNJ10, SPTBN2, CAPN1, ITPR1
Spongy Degeneration with Cerebellar Ataxia 1, 2	ATP1B2
Stargardt Disease	ABCA4
Tremor	PLP

Panel 2: Development, Musculoskeletal System, Reproduction, Skin and Hair, Teeth and Oral Cavity

Number of Alleles Tested: 160

Condition	Gene(s)
Abortion	BTBD17
Alexander Disease	GFAP
Amelogenesis Imperfecta 1-3	ACP4, ENAM
Bernard-Soulier Syndrome Type C	GP9
Beta Mannosidosis 1, 2	MANBA
Centronuclear Myopathy 1, 2	BIN1, HACD1
CHILD-like Syndrome	NSDHL
Chondrodysplasia	ITGA10
Chondrodystrophy (HT1)	CFA 12
Ciliary Dyskinesia 1, 2	CCDC39, NME5
Cleft Lip and Palate	ADAMTS20
Cleft Palate	DLX6
Coat Color Dilution (d^1, d^2)	MLPH
Congenital Ichthyosis	NIPAL4
Congenital Keratoconjunctivitis Sicca and Ichthyosiform Dermatosis	FAM83H
Congenital Myasthenic Syndrome 1-4	CHAT, CHRNE, COLQ
Craniomandibular Osteopathy 1-4	SLC37A2, COL1A1, SLC35D1
Cushing's Syndrome 1-6	GNAS
Cyclic Neutropenia	AP3B1
Decreased Fecundity	GDF9
Dental Hypomineralization	FAM20C
Dermatosparaxis	ADAMTS2
Dermoid Sinus	FGF3
Disorder of Sexual Development	HSD17B3
Disproportionate Dwarfism	COL11A2
Dystrophic Epidermolysis Bullosa 1, 2	COL7A1
Ectodermal Dysplasia, 1-2	FOXI3, PKP1
Ehlers-Danlos Syndrome 1-4	COL5A1, TNXB
Epidermolysis Bullosa	PLEC
Epidermolytic Hyperkeratosis	KRT10
Episodic Falling Syndrome	BCAN
Exercise Induced Collapse	DNM1
Exercise Induced Metabolic Myopathy	ACADVL
Exfoliative Cutaneous Lupus Erythematosus (ECLE)	UNC93B1
Fanconi Syndrome	FAN1
Fucosidosis Alpha	FUCA1
Gangliosidosis 1-3	GLB1
Globoid Cell Leukodystrophy 1, 2	GALC
Glycogen Storage Disease IIIa 1	AGL
Glycogen Storage Disease VII 1, 2	PFKM
Hereditary Methemoglobinemia 1, 2	CYB5R3
Hyperkeratosis	FAM83G
Hypomyelination of Central Nervous System	FNIP2
Hypophosphatasia	ALPL
Hypothyroidism 1-4	TPO
Hypotrichosis 1, 2	SGK3
Ichthyosis 1-4	ASPRV1, PNPLA1, SLC27A4, TGM1
ntestinal Cobalamin Malabsorption	AMN
Junctional Epidermolysis Bullosa	LAMA3
Lethal Acrodermatitis	MKLN1
Leukodystrophy	CYTB
Ligneous Membranitis	PLG
Limb Girdle Muscular Dystrophy Type 2F	SGCD
Malignant Hyperthermia	RYR1
Merle (Mc, Mc+, Ma, Ma+, M, Mh)	PMEL
Mucopolysaccharidosis Type I 1	IDUA
Mucopolysaccharidosis Type VI 1, 2	ARSB
Mucopolysaccharidosis Type VII 1, 2	GUSB
Muscular Dystrophy 1-8	COL6A1, DMD
Muscular Hypertrophy	MSTN
Musladin Lueke Syndrome	ADAMTSL2
Myotonia 1-3	CLCN1
Nasal Parakeratosis 1, 2	SUV39H2
Nemaline Myopathy	NEB
Oculocutaneous Albinism	OCA2
Oculocutaneous Albinism Type IV 1-3	SLC45A2
Oculoskeletal Dysplasia 1, 2	COL9A2, COL9A3
Osteochondrodysplasia	SLC13A1
Osteochondromatosis	EXT2
Osteogenesis Imperfecta 1-5	COL1A1, COL1A2, SERPINH1
Palmoplantar Keratoderma	KRT16
Paroxysmal Dyskinesia	PIGN
Periodic Fever Syndrome 1, 2	HAS2, MTBP
Persistant Mullerian Duct Syndrome	AMHR2
Pituitary Dwarfism	LHX3
Polyneuropathy 1-6	NDRG1, RAB3GAP1, ARHGEF10, GJA9
Pompe Disease	GAA
Pyruvate Dehydrogenase Deficiency	PDP1
Pyruvate Kinase Deficiency of Erythrocyte 1-6	PKLR
Screw Tail	DVL2
Selective Cobalamin Malabsorption 1-3	CUBN
Spinal Dyraphism	NKX2-8
Spinocerebellar Ataxia 6	CAPN1
Spondylocostal Dysostosis	HES7
Tail Length (TBXT)	T (TBXT)
Van den Ende-Gupta Syndrome	SCARF2
Vitamin D Deficiency Rickets Type II	VDR
X-linked Hypohidrotic Ectodermal Dysplasia 1, 2	EDA

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CANINE RALLEE® Certified Genetic Test Panels *Continued*

Panel 3: Blood, Cancer, Endocrine System, Gastrointestinal Tract, Heart, Immune System, Kidneys, Liver, Metabolism, Respiratory System

Number of Alleles Tested: 135

Condition	Gene(s)
Acute Respiratory Distress Syndrome	ANLN
Bernard-Soulier Syndrome Type C	GP9
C3 Deficiency	C3
Cardiomyopathy	YARS2
Ciliary Dyskinesia 1, 2	CCDC39, NME5
Colorectal Hamartomatous Polyposis and Ganglioneuromatosis	PTEN
Congenital Dyshormonogenic Hypothyroidism	SLC5A5
Copper Toxicosis	COMMD1
Cushing's Syndrome 1-6	GNAS
Cyclic Neutropenia	AP3B1
Cystinuria Type IA	SLC3A1
Cystinuria Type IIA 1, 2	SLC3A1
Cystinuria Type IIB	SLC7A9
Demyelinating Peripheral Neuropathy	SBF2
Diffuse Cystic Renal Dysplasia and Hepatic Fibrosis	INPP5E
Dilated Cardiomyopathy	PLN
Elliptocytosis	SPTB
Exercise Induced Metabolic Myopathy	ACADVL
Factor VII Deficiency	F7
Factor XI Deficiency	F11
Fanconi Syndrome	FAN1
Fatal Neonatal Interstitial Lung Disease	LAMP3
Gallbladder Mucoceles	ABCB4
Gastrointestinal Stromal Tumors 1-6	KIT
Glycogen Storage Disease Ia	G6PC
Glycogen Storage Disease IIIa	AGL
Glycogen Storage Disease VII 1, 2	PFKM
Hemophilia A 1-5	F8
Hemophilia B 1-7	F9
Hepatic Copper Toxicosis	ATP7B
Hereditary Nephritis	COL4A5
Hereditary Methemoglobinemia 1, 2	CYB5R3
Hereditary Nephropathy 1-3	COL4A4, COL4A5
Hypocatalasia	CAT
Hypothyroidism 1-4	TPO
Inflammatory Pulmonary Disease	AKNA
Intestinal Cobalamin Malabsorption	AMN
Invasive Transitional Cell Carcinoma	BRAF
Laryngeal Paralysis Risk Factor	RAPGEF6
Lethal Acrodermatitis	MKLN1
Leukocyte Adhesion Deficiency	FERMT3
Leukocyte Adhesion Deficiency Type I	ITGB2
Ligneous Membranitis	PLG
Lundehund Syndrome	LEPREL1
Malignant Hyperthermia	RYR1
May-Hegglin Anomaly	MYH9
Mucopolysaccharidosis Type I	IDUA
Mucopolysaccharidosis Type VI 1, 2	ARSB
Myeloperoxidase Deficiency	MPO
Myotubular Myopathy 1, 2	MTM1
Obesity and Food Motivation	POMC
Oculocutaneous Albinism Type IV 1-3	SLC45A2
Pancreatitis Variant 1-3	SPINK1
Periodic Fever Syndrome 1,2	HAS2, MTBP
Pituitary Dwarfism	LHX3
Polycystic Kidney Disease	PKD1
Pompe Disease	GAA
Postoperative Hemorrhage	P2RY12
Prekallikrein Deficiency	KLKB1
Primary Hyperoxaluria	AGXT
Primary Polycythemia 1	JAK2
Protection Against Liver Copper Accumulation	ATP7A
Pyruvate Dehydrogenase Deficiency	PDP1
Pyruvate Kinase Deficiency of Erythrocyte 1-6	PKLR
Renal Cystadenocarcinoma	FLCN
Scott Syndrome	ANO6
Selective Cobalamin Malabsorption 1-3	CUBN
Severe Combined Immunodeficiency Disease 1,2	PRKDC, RAG1
Squamous Cell Carcinoma	KITLG
Thrombasthenia 1-3	ITGA2B
Thrombocytopenia 1, 2	TUBB1
Thrombopathia 1-3	RASGRP1
Trapped Neutrophil Syndrome	VPS13B
Upper Airway Syndrome	ADAMTS3
Urolithiasis	SLC2A9
Vitamin D Deficiency Rickets Type II	VDR
Von Willebrand Disease Type I	VWF
Von Willebrand Disease Type II 1, 2	VWF
Von Willebrand Disease Type III 1-3	VWF
X-linked Severe Combined Immunodeficiency 1, 2	IL2RG

Custom Panel

Testing of all alleles in Panels 1-3 and Custom Whole Genome Screening for *de novo* mutations

EQUINE RALLEE® Certified Genetic Test Panels

Panel 1: Development, Hooves, Hair and Skin, Musculoskeletal System

Number of Alleles Tested: 19

Condition	Gene(s)
Dwarfism (D1-4)	ACAN
Dwarfism with Joint Laxity	B4GALT7
Congenital Myotonia	CLCN1
Skeletal Muscle Glycogenesis (PSSM)	GYS1
Malignant Hyperthermia	RYR1
Hyperkalemic Periodic Paralysis (HYPP)	SCN4A
Epidermolysis Bullosa Junctionalis	LAMA3
Hereditary Junctional Mechanobullous Disease	LAMC2
Hereditary Equine Regional Dermal Asthenia (HERDA)	PPIB
Hoof Wall Separation Disease (HWSD)	SERPINB11
Naked Foal Syndrome (NFS)	ST14
Glycogen Storage Disease IV (GBED)	GBE1
Occipitoatlantoaxial Malformation (OAAM)	HOXD3
Skeletal Atavism	SHOX
Incontinentia Pigmenti 1	IKBKG
Warmblood Fragile Foal Syndrome Type (WFFS)	PLOD1

Panel 2: Blood, Cancer, Endocrine System, Heart, Liver, Gastrointestinal Tract, Vision, Immune System, Nervous System, Reproduction

Number of Alleles Tested: 24

Condition	Gene(s)
Androgen Insensitivity 1-5	AR
Hydrocephalus	B3GALNT2
Limbal Squamous Cell Carcinoma	DDB2
Melanoma Susceptibility	ASIP
Lethal White Foal Syndrome	EDNRB
Glanzmann Thrombasthenia 1, 2	ITGA2B
Cerebellar Abiotrophy	TOE1
Lavender Foal Syndrome	MYO5A
Immune Mediated Myositis (IMM) Susceptibility	MYH1
Multiple Congenital Ocular Anomalies	PMEL
Severe Combined Immunodeficiency	PRKDC
Foal Immunodeficiency Syndrome	SLC5A3
Congenital Stationary Night Blindness (CSNB)	TRPM1
Disorder of Sexual Development (Sex Reversal)	AKR1C
Glycogen Storage Disease IV (GBED)	GBE1
Occipitoatlantoaxial Malformation (OAAM)	HOXD3
Skeletal Atavism	SHOX
Incontinentia Pigmenti	IKBKG
Warmblood Fragile Foal Syndrome Type (WFFS)	PLOD1

Custom Panel

Testing of all alleles in Panels 1-2 and Custom Whole Genome Screening for *de novo* mutations

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FELINE RALLEE® Certified Genetic Test Panels

Panel 1: Hearing, Nervous System, Vision

Number of Alleles Tested: 30

Condition	Gene(s)
Alpha Mannosidosis	MAN2B1
Brachycephaly and Craniofacial Defects	ALX1
Congenital Glaucoma	LTBP2
Dihydropyrimidinase (DHP)	CPYS
Erythrocyte Pyruvate Kinase Deficiency (PK Deficiency)	PKLR
Glycogen Storage Disease Type IV (GSD IV)	GBE
GM1 Gangliosidosis 1-5	GLB1, GM2A, HEXB
Hemophilia B 1, 2	F9
Hypokalemic Periodic Paralysis	WNK4
Leber Congenital Amaurosis (aka Retinal Pigment Epithelial Dystrophy)	AIPL
Mucolipidosis II	GNPTAB
Mucopolysaccharidosis VII 1, 2	GUSB
Neuronal Ceroid Lipofuscinosis Type 7 (CLN7)	MFSD8
Niemann-Pick Disease Type C1 (NPC1) 1, 2	NPC1
Niemann-Pick Disease Type C2 (NPC2)	NPC2
Retinal Degeneration II	CEP290
Rickets Type 1B	CYP2R1
Rickets Type I 1, 2	CYP27B1, CYP27B2
Rod-Cone Dysplasia	CRX
Spasticity (Congenital Myasthenic Syndrome, CMS)	COLQ
Spinal Muscular Atrophy	LIX1

Panel II: Development, Skin and Hair, Musculoskeletal System

Number of Alleles Tested: 45

Condition	Gene(s)
Acute Intermittent Porphyria (AIP) 1-6	HMBS
Alpha Mannosidosis	MAN2B1
Brachycephaly and Craniofacial Defects	ALX1
Chediak-Higashi Syndrome	LYST
Congenital Hypothyroidism	TPO
Dihydropyrimidinase (DHP)	CPYS
Ehlers-Danlos Syndrome, Classic Type I (EDS)	COL5A1
Erythrocyte Pyruvate Kinase Deficiency (PK Deficiency)	PKLR
Erythropoietic Porphyria	UROS
Fibrodysplasia Ossificans	ACVR1
Glycogen Storage Disease Type IV (GSD IV)	GBE
GM1 Gangliosidosis 1-5	GLB1, GM2A, HEXB
Hairless with shortened lifespan	FOXN1
Hemophilia B 1, 2	F9
Hyperlipoproteinaemia	LPL
Hypokalemic Periodic Paralysis	WNK4
Inflammatory Linear Verrucous Epidermal Nevus (ILVEN)	NSDHL
Mucolipidosis Type II	GNPTAB
Mucopolysaccharidosis Type I	IDUA
Mucopolysaccharidosis Type VI	ARSB
Mucopolysaccharidosis VII 1, 2	GUSB
Myotonia Congenita	CLCN1
Neuronal Ceroid Lipofuscinosis Type 7 (CLN7)	MFSD8
Niemann-Pick Disease Type C1 (NPC1) 1, 2	NPC1
Niemann-Pick Disease Type C2 (NPC2)	NPC2
Osteochondrodysplasia	TRPV4
Rickets Type I 1, 2	CYP27B1, CYP27B2
Rickets Type IB	CYP2R1
Spasticity (Congenital Myasthenic Syndrome, CMS)	COLQ
Spinal Muscular Atrophy	LIX1
Testicular Hypoplasia and Persistent Primary Dentition	TAC3

Panel III: Blood, Endocrine System, Gastrointestinal Tract, Heart, Immune System, Kidneys, Liver, Reproduction

Number of Alleles Tested: 40

Condition	Gene(s)
Acute Intermittent Porphyria (AIP) 1-6	HMBS
Autoimmune Lymphoproliferative Syndrome (ALPS)	FASL
Chediak-Higashi Syndrome	LYST
Congenital Hypothyroidism	TPO
Cystinuria Type IA	SLC3A1
Cystinuria Type IB 1-4	SLC7A9
Cystinuria Type IIB	SLC7A9
Dihydropyrimidinase (DHP)	CPYS
Erythrocyte Pyruvate Kinase Deficiency (PK Deficiency)	PKLR
Erythropoietic Porphyria	UROS
Factor XII Deficiency 1, 2	F12
Glycogen Storage Disease Type IV (GSD IV)	GBE
Hemophilia B 1, 2	F9
Hepatic Copper Accumulation	ATP7B
Hyperlipoproteinaemia	LPL
Hyperoxaluria Type II	GRHPR
Hypertrophic Cardiomyopathy (HCM) 1-3	MYBPC3, MYH7
Leukocyte Adhesion Deficiency Type I	ITGB2
Methemoglobinemia 1, 2	CYB5R3
Mucolipidosis II	GNPTAB
Mucopolysaccharidosis Type I	IDUA
Niemann-Pick Disease Type C1 (NPC1) 1, 2	NPC1
Niemann-Pick Disease Type C2 (NPC2)	NPC2
Polycystic Kidney Disease (PKD)	PKD1
Resistance to FIV 1	APOBEC3C
Testicular Hypoplasia and Persistent Primary Dentition 1	TAC3

Custom Panel

Testing of all alleles in Panels 1-3 and Custom Whole Genome Screening for *de novo* mutations

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BOVINE RALLEE® Certified GeneticTest Panels

Panel 1: Development, Hearing, Musculoskeletal System, Nervous System, Vision

Number of Alleles Tested: 114

Condition	Gene(s)
Chondrodysplasia 1-7	ACAN, EVC2, FGFR3
Pulmonary Hypoplasia and Anasarca Syndrome (PHA)	ADAMTS3
Contractural Arachnodactyly (Fawn calf syndrome)	ADAMTSL3
Arthrogryposis Multiplex Congenita (Curly Calf Syndrome) 1-3	AGRN, CHRNB1, PIGH
Tibial Hemimelia 1, 2	ALX4
Cholesterol Deficiency (CD)	APOB
Citrullinemia	ASS1
Congenital Muscular Dystonia 1 (CMD1)	ATP2A1
Congenital Pseudomyotonia 1, 2 (PMT 1, 2)	ATP2A1
Maple Syrup Urine Disease 1, 2 (MSUD 1, 2)	BCKDHA
Seckel-like Syndrome (SHGC)	CEP250
Neurocristopathy	CHD7
Myasthenic Syndrome	CHRNE
Osteopetrosis with gingival hamartomas 1, 2	CLCN7, SLC4A2
Renal Tubular Dysplasia (RTD1, 2) 1, 2	CLDN16
Neuronal Ceroid Lipofuscinosis 5 (NCL5)	CLN5
Osteogenesis Imperfecta Type II 1, 2	COL1A1
Achondrogenesis Type II 1-7 (Bulldog calf syndrome 1-7)	COL2A1
Morgagnian Cataract	CPAMD8
Marfan Syndrome (MFS) 1, 2	FBN1
Facial Dysplasia Syndrome	FGFR2
Trimethylaminuria	FMO3
Generalized Glycogenosis Type II 1-3	GAA
Dwarfism 1-4	GH1, GON4L, PRKG2, RNF11
Myoclonus	GLRA1
Diaphragmatic Muscle Myopathy (HMDM)	HSPA1A
Perinatal Weak Calf Syndrome	IARS
Immunodeficiency	IL17RA
Leukocyte Adhesion Deficiency	ITGB2
Lethal Multi-Organ Developmental Dysplasia	KDM2B
Spinal Muscular Atrophy	KDSR
Hypomyelinogenesis	KIF1C
Hypotrichosis 2	KRT71
Congenital Muscular Dystonia 2 (CMD2)	SLC6A5
Syndactyly 1-5	LRP4
Alpha-Mannosidosis 1, 2	MAN2B1
Beta-Mannosidosis 1	MANBA
Degenerative Axonopathy	MFN2
Microphthalmia	MITF
Dominant White with Bilateral Deafness 1, 2	MITF
Xanthinuria Type II 1, 2	MOCOS
Arachnomelia 1, 2	MOCS1, SUOX
Crooked Tail Syndrome 1, 2	MRC2
Double Muscling 1-9	MSTN
Arthrogryposis Type 1B	MYBPC1
Mucopolysaccharidosis IIIB	NAGLU
Polymelia and Neural Tube Defects	NHLRC2
Cataracts	NID1
Niemann-Pick Disease Type 1	NPC1
Abortion 11, 12	OBFC1, PFAS
Dilated Cardiomyopathy	OPA3
Zinc Deficiency-Like Syndrome	PLD4
Progressive Degenerative Myeloencephalopathy	PNPLA8
Cardiomyopathy	PPP1R13L
Bovine Spongiform Encephalopathy	PRNP
Glycogen Storage Disease V	PYGM
Interdigital Hyperplasia	ROR2
Retinitis Pigmentosa	RP1
Tetradysmelia	RSPO2
Fanconi-Bickel Syndrome	SLC2A2
Turning Calves Syndrome	SLC25A46
Complex Vertebral Malformation 1, 2	SLC35A3
Spinal Dysmyelination	SPAST
Vertebral and Spinal Dysplasia	T
PIRM Syndrome	UBE3B
Multiple Ocular Defects (MOD)	WFDC1
Polled and Multisystemic Syndrome (PMS) 1, 2	ZEB2
Frontonasal Dysplasia 1	ZIC2

Panel II: Blood, Heart, Kidneys, Liver, Lungs, Gastrointestinal Tract, Immune System

Number of Alleles Tested: 29

Condition	Gene(s)
Cholesterol Deficiency (CD)	APOB
Congenital Muscular Dystonia 1 (CMD1)	ATP2A1
Neurocristopathy	CHD7
Renal Tubular Dysplasia (RTD1,2) 1, 2	CLDN16
Chondrodysplasia 3-5	EVC2
Hemophilia A 1, 2	F8
Factor XI Deficiency 1, 2	F11
Brachyspina Syndrome (BS)	FANCI
Marfan Syndrome (MFS) 1, 2	FBN1
Protoporphyria	FECH
Immunodeficiency	IL17RA
Leukocyte Adhesion Deficiency	ITGB2
Lethal Multi-Organ Developmental Dysplasia	KDM2B
Chediak-Higashi Syndrome	LYST
Niemann-Pick Disease Type 1	NPC1
Dilated Cardiomyopathy	OPA3
Zinc Deficiency-Like Syndrome	PLD4
Cardiomyopathy	PPP1R13L
Thrombopathia	RASGRP2
Dwarfism 4	RNF11
Fanconi-Bickel Syndrome	SLC2A2
Spherocytosis	SLC4A1
Acrodermatitis Enteropathica	SLC39A4

Panel III: Dental, Dermal, Hair, Endocrine System, Metabolism, Milk Production, Reproduction

Number of Alleles Tested: 79

Condition	Gene(s)
Ichthyosis Fetalis (IF) 1-3	ABCA12
Chondrodysplasia 1-3	ACAN
Dermatosparaxis	ADAMTS2
Pulmonary Hypoplasia and Anasarca Syndrome (PHA)	ADAMTS3
Tibial Hemimelia 1, 2	ALX4
Abortion 1-24	ANXA10, APAF1, CAD, CENPU, CWC15, EXOSC4, GART, MED22, MIMT1, MYH6, OBFC1, PFASRABGGTB, RNASEH2B, RNF20, RPIA, SDE2, SHBG, SLC37A2, SMC2, SUGT1, TFB1M, TTF1, TUBD1
Tail Stump Sperm Defect	ARMC3
Athenospermia	CCDC189
Epidermolysis Bullosa 1-5	COL7A1, ITGB4, KRT5, LAMA3, LAMC2
Tricho-dento-osseous-like syndrome	DLX3
Anhidrotic Ectodermal Dysplasia 1-7 (XLHED1-7)	EDA, EDAR
Ehlers-Danlos Syndrome Variant 1	EPYC
Factor XI Deficiency 1, 2	F11
Brachyspina Syndrome (BS)	FANCI
Trimethylaminuria	FMO3
Dwarfism	GH1
Hypotrichosis 1, 2	HEPHL1, KRT71
Immunodeficiency	IL17RA
Lethal Multi-Organ Developmental Dysplasia	KDM2B
Spinal Muscular Atrophy	KDSR
Gonadal Hypoplasia (Cs^29)	KIT
Dominant White with Bilateral Deafness 1, 2	MITF
Zinc Deficiency-Like Syndrome	PLD4
Hydrallantois	SLC12A1
Complex Vertebral Malformation 1, 2	SLC35A3
Acrodermatitis Enteropathica	SLC39A4
Oculocutaneous Albinism Type IV 1, 2	SLC45A2
Arachnomelia 2	SUOX
Goiter	TG
Male Subfertility	TMEM95
Streaked Hairlessness	TSR2
Scurs Type II	TWIST1
Oculocutaneous Albinism Type I	TYR
Deficiency of Uridine Monophosphate Synthase (DUMPS)	UMPS
Polled and Multisystemic Syndrome (PMS) 1, 2	ZEB2

Custom Panel

Testing of all alleles in Panels 1-3 and Custom Whole Genome Screening for *de novo* mutations

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