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Boerboel International Genetic Screening
CERTIFICATE

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Name dog : Immer Moed Ava
Registrationnumber : 201100288
MicroChipnumber : 528246000323463
Date of birth : 02-05-2010
Gender : Female

Owner : Sophie & Mats Freier & Carlsson
Address : Trälket 11
Town : Töreboda
Country : Sweden

B.I.G.S. (Boerboel International Genetic Screening) results:

Disorder

Canine Multifocal Retinopathy 1 (cmr1), Eye disorder.

Result

Carrier

Neurological disorders

L-2-Hydroxyglutaric aciduria (L2HGA); mutation 1	Free
L-2-Hydroxyglutaric aciduria (L2HGA); mutation 2 originally found in Staffordshire Bull Terrier	Free
Neonatal Encephalopathy with Seizures (NEWS)	Free
Cerebellar abiotrophy or neonatal cerebellar cortical degeneration (NCCD)	Free
Polyneuropathy; mutation originally found in Alaskan Malamute	Free
Bandera's Neonatal Ataxia (BNAt)	Unknown
Progressive early-onset cerebellar ataxia; mutation originally found in Finnish Hound	Free
Benign Familial Juvenile Epilepsy or Remitting Focal Epilepsy	Free
Polyneuropathy; mutation originally found in Greyhound	Free
Neuronal Ceroid Lipofuscinosis 1 (NCL1)	Free
Neuronal Ceroid Lipofuscinosis, type 12, mutation originally found in Tibetan terrier	Free
Neuronal Ceroid Lipofuscinosis 10 (NCL10)	Free
Neuronal Ceroid Lipofuscinosis 2 (NCL2)	Free
Neuronal Ceroid Lipofuscinosis 4A (NCL4)	Unknown
Neuronal Ceroid Lipofuscinosis 5 (NCL5)	Unknown
Neuronal Ceroid Lipofuscinosis 6 (NCL6)	Free
Fetal-onset Neuroaxonal Dystrophy (FNAD)	Free
L-2-hydroxyglutaric Aciduria (L2HGA), Yorkshire Terrier mutation	Unknown

Eye disorders

Collie Eye Anomaly (CEA)	Unknown
Cone-rod Dystrophy 1 (cord1-PRA)	Free
Congenital Stationary Night Blindness (CSNB)	Unknown
Autosomal Dominant Progressive Retinal Atrophy (ADPRA)	Free
Golden Retriever Progressive Retinal Atrophy 1 (GR_PRA 1)	Free
Primary Hereditary Cataract (PHC); mutation originally found in Australian Shepherd	Free
Primary Lens Luxation (PLL)	Free
Rod-Cone Dysplasia 1 (rcd1); mutation originally found in Irish Setter	Free
Rod-Cone Dysplasia 1a (rcd1a); mutation originally found in Sloughi	Free
Rod-Cone Dysplasia 3 (rcd3)	Free
X-Linked Progressive Retinal Atrophy 1 (XLPRA1)	Free
Cone-rod dystrophy (crd SWD); mutation originally found in Standard Wire-haired Dachshund	Free
Primary Open Angle Glaucoma; mutation originally found in Beagle	Free
Achromatopsia or Cone Degeneration (CD); mutation originally found in German Shorthaired Pointer	Free
OSD2 (Oculoskeletal Dysplasia 2) or DRD2 (Dwarfism-Retinal Dysplasia 2)	Unknown
Canine Multifocal Retinopathy 3 (cmr3); mutation originally found in Lapponian Herder	Free
Canine Multifocal Retinopathy 2 (cmr2); mutation originally found in Coton de Tulear	Free
Generalized Progressive Retinal Atrophy; mutation originally found in Schapendoes	Free

Neuromuscular disorders

Degenerative Myelopathy (DM)	Unknown
Exercise-Induced Collapse (EIC)	Unknown
Globoid Cell Leukodystrophy (GLD) or Krabbe's disease, Terrier mutation	Free
Alpha Fucosidosis	Free
Globoid Cell Leukodystrophy (GLD) or Krabbe's disease; mutation originally found in Irish Setter	Unknown
GM1 Gangliosidosis; mutation originally found in Portuguese Water Dog	Free
GM1 Gangliosidosis; mutation originally found in Alaskan Husky	Free
GM1 Gangliosidosis; mutation originally found in Shiba Dog	Free
Episodic falling (EF)	Free
GM2 Gangliosidosis	Free
Hyperekplexia or Startle Disease	Free

Metabolic disorders

Glycogen Storage Disease, type IIIa (GSDIIIa)	Free
Mucopolysaccharidosis Type VII (MPSVII); mutation originally found in Brazilian Terrier	Free
Pyruvate Dehydrogenase Deficiency	Free
Glycogen Storage Disease, type II or Pompe's disease	Free
Glycogen Storage Disease, Type Ia (GSDIa)	Free
Mucopolysaccharidosis Type I (MPSI)	Unknown
Mucopolysaccharidosis Type IIIA (MPSIIIA); mutation originally found in Dachshund	Free
Mucopolysaccharidosis Type IIIA (MPSIIIA); mutation originally found in New Zealand Huntaway	Unknown
Mucopolysaccharidosis Type VI (MPSVI); mutation originally found in Poodle	Free
Hypocatalasia or Acatalasemia	Free

Blood disorders

Canine Cyclic Neutropenia (Gray Collie Syndrome)	Free
Trapped Neutrophil Syndrome (TNS)	Free
Von Willebrand's Disease (vWD) Type III; mutation originally found in Kooikerhondje	Unknown
Canine Leukocyte Adhesion Deficiency (CLAD), type I	Unknown
May-Hegglin Anomaly (MHA)	Free
Factor IX Deficiency or Haemophilia B; mutation originally found in Lhasa Apso	Free
Factor IX Deficiency or Haemophilia B, Gly379Glu mutation	Free
Pyruvate Kinase Deficiency of Erythrocyte; mutation originally found in West Highland White Terrier	Free
Glanzmann Thrombasthenia (GT), Type I; mutation originally found in Pyrenean Mountain Dog	Free
Glycogen Storage Disease VII or Hereditary Phosphofructokinase (PFK) Deficiency	Free
Bleeding disorder due to P2RY12 defect	Free
Von Willebrand's Disease (vWD) Type III; mutation originally found in Shetland Sheepdog	Unknown
Factor VII Deficiency	Free
Factor VIII deficiency or Haemophilia A; mutation originally found in German Shepherd	Free
Pyruvate Kinase Deficiency of Erythrocyte; mutation originally found in Labrador Retriever	Free
Pyruvate Kinase Deficiency of Erythrocyte; mutation originally found in Pug	Free
Pyruvate Kinase Deficiency of Erythrocyte; mutation originally found in Beagle	Free

Kidney disorders

Autosomal Recessive Hereditary Nephropathy (ARHN); mutation originally found in English Cocker Spaniel	Unknown
Hyperuricosuria and Hyperuricemia (HUU) or Urolithiasis. Kidney disorder.	Free
Primary hyperoxaluria (PH); mutation originally found in Coton de Tulear	Free
X-linked Hereditary Nephropathy (XLHN)	Free
Autosomal Recessive Hereditary Nephropathy (ARHN); mutation originally found in English Springer Spaniel	Unknown
Polycystic Kidney Disease (PKD)	Free

Other disorders

Malignant Hyperthermia (MH)	Free
Ivermectin sensitivity (MDR1)	Unknown
Narcolepsy; mutation originally found in Dobermann	Free
Primary Ciliary Dyskinesia (PCD)	Free
Congenital Keratoconjunctivitis Sicca and Ichthyosiform Dermatitis (CKCSID) or Dry Eye Curly Coat	Free
Gallbladder Mucocele Formation	Free
Persistent Mullerian Duct Syndrome (PMDS), mutation originally found in Miniature Schnauzer	Free

Muscular disorders

Muscular Dystrophy, Duchenne type or Golden Retriever Muscular Dystrophy (GRMD)	Free
Myotonia; mutation originally found in Miniature Schnauzer	Free
Cavalier King Charles Spaniel Muscular Dystrophy (CKCS-MD)	Free
Duchenne-like Muscular Dystrophy, Pembroke Welsh Corgi-type	Free
Myotubular Myopathy 1 or X-linked Myotubular Myopathy	Free

Immunological disorders

ARSCID (Autosomal Recessive Severe Combined Immunodeficiency)	Free
X-linked Severe Combined Immunodeficiency (XSCID); mutation originally found in Basset Hound	Free
X-linked Severe Combined Immunodeficiency (XSCID); mutation originally found in Cardigan Welsh C3 deficiency	Free

Skeletal disorders

Osteogenesis imperfecta (OI) or Brittle Bone Disease; mutation originally found in Dachshund	Free
Chondrodysplasia (dwarfism); mutation originally found in Norwegian Elkhound and Karelian Bear Dog	Free
Skeletal Dysplasia 2 (SD2)	Free
Craniomandibular Osteopathy (CMO)	Free

Skin disorders

Golden Retriever Ichthyosis	Unknown
Anhidrotic Ectodermal Dysplasia or X-linked Ectodermal Dysplasia (XHED)	Unknown
Musladin-Lueke syndrome (MLS)	Free
Lamellar Ichthyosis (LI)	Unknown
Epidermolysis bullosa, dystrophic	Free
Epidermolytic Hyperkeratosis or Ichthyosis in Norfolk Terrier	Free
Ectodermal dysplasia or Skin Fragility Syndrome (ED-SFS)	Free

Cardiological disorders

Dilated Cardiomyopathy. DCM. Heart disorder.	Free
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Endocrine disorders

Hypothyroidism; mutation originally found in Tenterfield Terrier	Free
Hypothyroidism; mutation originally found in Toy Fox- and Rat Terrier	Free

Unknown: Test is not finished yet. Result will be available soon.

For all your questions about **DNA** go to the BI **--SUPPORT / HELPDESK-- !!!**
This option is to be found on all 3 websites of BI in the horizontal bar.

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Vincent Marvell, Chairman



BOERBOEL INTERNATIONAL

"Because there is more to a Boerboel than just good looks !