



23/5/2015

MyDogDNA

8700 2321 6414 275

Thistleglen Chiquitita, Finnish Lapphund

Registered name: Thistleglen Chiquitita

Nickname: Chika

Registration ID: AL00331903

Microchip: 956000000545039

Breed: Finnish Lapphund

Gender: Female

Owner: David Kenneth Matheson

Country: United Kingdom

Testing date: 2/12/2013

DNA identification profile:

Identified with standard ISAG markers



Dog's identity verified from microchip or tattoo by veterinarian or other authorized person during sample taking: **No**

Test results - Known disorders in the breed

Disorder	Type	Mode of inheritance	Result
Glycogen Storage Disease Type II (GSD II), or Pompe's disease	Metabolic disorders	Autosomal Recessive	Clear
Malignant Hyperthermia (MH)	Pharmacogenetics	Autosomal Dominant	Clear

When obtaining a carrier or affected test result, we recommend that you contact your veterinarian for more detailed information on the condition and possible treatment.

On behalf of Genoscooper Laboratories,

SIGNATURE

Jonas Donner, PhD, Head of Research and Development
at Genoscooper Laboratories



23/5/2015

MyDogDNA

8700 2321 6414 275

Thistlelglen Chiquitita, Finnish Lapphund

Registered name: Thistlelglen Chiquitita

Nickname: Chika

Registration ID: AL00331903

Microchip: 956000000545039

Breed: Finnish Lapphund

Gender: Female

Owner: David Kenneth Matheson

Country: United Kingdom

Testing date: 2/12/2013

DNA identification profile:
Identified with standard ISAG markers



Dog's identity verified from microchip or tattoo by veterinarian or other authorized person during sample taking: **No**

Test results - Traits

Trait	Genotype	Description
Colour Locus A	ay/at	The dog is heterozygous for ay-allele and at-allele.
Colour Locus B	B/bc bc/bd	The dog is heterozygous for bc allele.
Colour Locus E	E/E	The dog is homozygous for E allele.
Colour Locus H	h/h	The dog is homozygous for h allele.
Colour Locus K	ky/ky	The dog is homozygous for ky allele.
Furnishings / Improper Coat in Portuguese Water Dogs (marker test)	GG/CC	The dog is not genetically likely to express furnishings.
Body mass, insulin-like growth factor 1 (IGF1) gene variant	A/A	The dog is homozygous for the genetic variant typically associated with small body mass. This genotype is common e.g. in Yorkshire Terrier, Chihuahua and Chinese Crested Dogs.
Coat length / "Fluffy" in Welsh Corgi	T/T	The dog carries two copies of the genetic variant typically associated with a long-haired coat. Dogs with this genotype typically have long coat.
Curly coat	C/C	The dog is genetically non-curly.
Ear erectness (pricked ears versus floppy ears), variant chr10:11072007	T/T	The dog is homozygous and carries two copies of a genetic variant typically associated with pricked ears. This genotype is common in breeds like Finnish Spitz, German Shepherd, Samoyed, Terriers and in Collie-related breeds.
Natural Bobtail (T-box mutation)	C/C	The dog does not carry any copy of the bobtail mutation. It therefore likely has a long-tailed phenotype.
Snout/skull length (shortened head versus elongated head), bone morphogenetic protein 3 (BMP3) gene variant	C/C	Your dog is homozygous for the genetic variant typically found in breeds with an elongated head (e.g. Saluki, Collie, Irish Wolfhound).
Tiny size, insulin-like growth factor 1 receptor (IGF1R) gene variant	G/G	Your dog is homozygous for a genetic variant typically found in larger-sized breeds (height at the withers > 25.4 cm (10 inches)).

On behalf of Genoscooper Laboratories,

SIGNATURE

Jonas Donner, PhD, Head of Research and Development
at Genoscooper Laboratories



23/5/2015

MyDogDNA

8700 2321 6414 275

Thistleglen Chiquitita, Finnish Lapphund

Test results - Additional disorders found in other breeds - page 1/6



Blood disorders

Disorder	Mode of inheritance	Result
Bleeding disorder due to P2RY12 defect	Autosomal Recessive	Clear
Canine Cyclic Neutropenia (Gray Collie Syndrome)	Autosomal Recessive	Clear
Factor IX Deficiency or Haemophilia B, Gly379Glu mutation	X-linked Recessive	Clear
Factor IX Deficiency or Haemophilia B; mutation originally found in Lhasa Apso	X-linked Recessive	Clear
Factor VII Deficiency	Autosomal Recessive	Clear
Factor VIII deficiency or Haemophilia A; mutation originally found in German Shepherd Dog	X-linked Recessive	Clear
Glanzmann Thrombasthenia (GT), Type I; mutation originally found in Pyrenean Mountain Dog	Autosomal Recessive	Clear
Glycogen Storage Disease VII or Hereditary Phosphofructokinase (PFK) Deficiency	Autosomal Recessive	Clear
May-Hegglin Anomaly (MHA)	Autosomal Dominant	Clear
Pyruvate Kinase Deficiency of Erythrocyte; mutation originally found in Beagle	Autosomal Recessive	Clear
Pyruvate Kinase Deficiency of Erythrocyte; mutation originally found in Labrador Retriever	Autosomal Recessive	Clear
Pyruvate Kinase Deficiency of Erythrocyte; mutation originally found in Pug	Autosomal Recessive	Clear
Pyruvate Kinase Deficiency of Erythrocyte; mutation originally found in West Highland White Terrier	Autosomal Recessive	Clear
Trapped Neutrophil Syndrome (TNS)	Autosomal Recessive	Clear

Cardiological disorders

Disorder	Mode of inheritance	Result
Dilated Cardiomyopathy; mutation originally found in Doberman Pinscher (USA)	Autosomal Dominant	Clear



23/5/2015

MyDogDNA

8700 2321 6414 275

Thistleglen Chiquitita, Finnish Lapphund

Test results - Additional disorders found in other breeds - page 2/6



Endocrine disorders

Disorder

Congenital hypothyroidism; mutation originally found in Toy Fox- and Rat Terrier

Mode of inheritance

Autosomal Recessive

Result

Clear

Eye disorders

Disorder

Achromatopsia or Cone Degeneration (CD); mutation originally found in German Shorthaired Pointer

Mode of inheritance

Autosomal Recessive

Result

Clear

Autosomal Dominant Progressive Retinal Atrophy (ADPRA)

Autosomal Dominant

Clear

Canine Multifocal Retinopathy 1 (cmr1), Mastiff-related breeds mutation

Autosomal Recessive

Clear

Canine Multifocal Retinopathy 2 (cmr2); mutation originally found in Coton de Tulear

Autosomal Recessive

Clear

Canine Multifocal Retinopathy 3 (cmr3); mutation originally found in Lapponian Herder

Autosomal Recessive

Clear

Cone-rod Dystrophy (cord1-PRA / crd4)

Autosomal Recessive
(Incomplete Penetrance)

Clear

Cone-rod dystrophy (crd SWD); mutation originally found in Standard Wire-haired Dachshund

Autosomal Recessive

Clear

Generalized Progressive Retinal Atrophy; mutation originally found in Schapendoes

Autosomal Recessive

Clear

Golden Retriever Progressive Retinal Atrophy 1 (GR_PRA 1)

Autosomal Recessive

Clear

Primary Hereditary Cataract (PHC); mutation originally found in Australian Shepherd

Autosomal Dominant
(Incomplete Penetrance)

Clear

Primary Lens Luxation (PLL)

Autosomal Recessive

Clear

Primary Open Angle Glaucoma; mutation originally found in Beagle

Autosomal Recessive

Clear

Rod-Cone Dysplasia 1 (rcd1); mutation originally found in Irish Setter

Autosomal Recessive

Clear

Rod-Cone Dysplasia 1a (rcd1a); mutation originally found in Sloughi

Autosomal Recessive

Clear

Rod-Cone Dysplasia 3 (rcd3)

Autosomal Recessive

Clear

X-Linked Progressive Retinal Atrophy 1 (XLGRA1)

X-linked Recessive

Clear



Test results - Additional disorders found in other breeds - page 3/6



Immunological disorders

Disorder

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

Mode of inheritance

Autosomal Recessive
X-linked Recessive
X-linked Recessive

Result

Clear
Clear
Clear

Kidney disorders

Disorder

Cystinuria; mutation originally found in Newfoundland Dog
Hyperuricosuria and Hyperuricemia (HUU) or Urolithiasis
Polycystic Kidney Disease (PKD)
Primary hyperoxaluria (PH); mutation originally found in Coton de Tulear
X-linked Hereditary Nephropathy (XLHN)

Mode of inheritance

Autosomal Recessive
Autosomal Recessive
Autosomal Dominant
Autosomal Recessive
X-linked Recessive

Result

No call
Clear
Clear
Clear
Clear

Metabolic disorders

Disorder

Glycogen Storage Disease, Type Ia (GSD Ia)
Glycogen Storage Disease, type IIIa (GSDIIIa)
Hypocatalasia or Acatalasemia
Mucopolysaccharidosis Type IIIA (MPSIIIA); mutation originally found in Dachshund
Mucopolysaccharidosis Type VII (MPSVII); mutation originally found in Brazilian Terrier
Pyruvate Dehydrogenase Deficiency

Mode of inheritance

Autosomal Recessive
Autosomal Recessive
Autosomal Recessive
Autosomal Recessive
Autosomal Recessive
Autosomal Recessive

Result

Clear
Clear
Clear
Clear
Clear
Clear



Test results - Additional disorders found in other breeds - page 4/6



Muscular disorders

Disorder	Mode of inheritance	Result
Cavalier King Charles Spaniel Muscular Dystrophy (CKCS-MD)	X-linked Recessive	Clear
Duchenne-like Muscular Dystrophy, Pembroke Welsh Corgi-type	X-linked Recessive	Clear
Muscular Dystrophy, Duchenne type or Golden Retriever Muscular Dystrophy (GRMD)	X-linked Recessive	Clear
Myotonia; mutation originally found in Miniature Schnauzer	Autosomal Recessive	Clear
Myotubular Myopathy 1 or X-linked Myotubular Myopathy	X-linked Recessive	Clear

Neurological disorders

Disorder	Mode of inheritance	Result
Benign Familial Juvenile Epilepsy or Remitting Focal Epilepsy	Autosomal Recessive	Clear
Cerebellar abiotrophy or neonatal cerebellar cortical degeneration (NCCD)	Autosomal Recessive	Clear
Fetal-onset Neuroaxonal Dystrophy (FNAD)	Autosomal Recessive	Clear
Hyperekplexia or Startle Disease	Autosomal Recessive	Clear
L-2-Hydroxyglutaric aciduria (L2HGA); mutation 1 originally found in Staffordshire Bull Terrier	Autosomal Recessive	Clear
L-2-Hydroxyglutaric aciduria (L2HGA); mutation 2 originally found in Staffordshire Bull Terrier	Autosomal Recessive	Clear
Neonatal Encephalopathy with Seizures (NEWS)	Autosomal Recessive	Clear
Neuronal Ceroid Lipofuscinosis 1 (NCL1)	Autosomal Recessive	Clear
Neuronal Ceroid Lipofuscinosis 10 (NCL10)	Autosomal Recessive	Clear
Neuronal Ceroid Lipofuscinosis 6 (NCL6)	Autosomal Recessive	Clear
Neuronal Ceroid Lipofuscinosis, type 12, mutation originally found in Tibetan terrier	Autosomal Recessive	Clear
Polyneuropathy; mutation originally found in Alaskan Malamute	Autosomal Recessive	Clear
Polyneuropathy; mutation originally found in Greyhound	Autosomal Recessive	Clear
Progressive early-onset cerebellar ataxia; mutation originally found in Finnish Hound	Autosomal Recessive	Clear



23/5/2015

MyDogDNA

8700 2321 6414 275

Thistlelglen Chiquitita, Finnish Lapphund

Test results - Additional disorders found in other breeds - page 5/6



Neuromuscular disorders

Disorder	Mode of inheritance	Result
Congenital Myasthenic Syndrome (CMS)	Autosomal Recessive	No call
Episodic falling (EF)	Autosomal Recessive	Clear
Globoid Cell Leukodystrophy (GLD) or Krabbe's disease, Terrier mutation	Autosomal Recessive	Clear
GM1 Gangliosidosis; mutation originally found in Alaskan Husky	Autosomal Recessive	Clear
GM1 Gangliosidosis; mutation originally found in Portuguese Water Dog	Autosomal Recessive	Clear
GM1 Gangliosidosis; mutation originally found in Shiba Dog	Autosomal Recessive	Clear
GM2 Gangliosidosis; mutation originally found in Toy Poodle	Autosomal Recessive	Clear

Skeletal disorders



23/5/2015

MyDogDNA

8700 2321 6414 275

Thistleglen Chiquitita, Finnish Lapphund

Test results - Additional disorders found in other breeds - page 6/6



Skin disorders

Disorder	Mode of inheritance	Result
Epidermolytic Hyperkeratosis or Ichthyosis in Norfolk Terrier	Autosomal Recessive	Clear
Musladin-Lueke syndrome (MLS)	Autosomal Recessive	Clear

Other disorders

Disorder	Mode of inheritance	Result
Congenital Keratoconjunctivitis Sicca and Ichthyosiform Dermatitis (CKCSID) or Dry Eye Curly Coat Syndrome	Autosomal Recessive	Clear
Narcolepsy; mutation originally found in Dobermann	Autosomal Recessive	Clear
Narcolepsy; mutation originally found in Labrador Retriever	Autosomal Recessive	No call
Persistent Mullerian Duct Syndrome (PMDS), mutation originally found in Miniature Schnauzer	Autosomal Recessive	Clear
Primary Ciliary Dyskinesia (PCD)	Autosomal Recessive	Clear

On behalf of Genoscooper Laboratories,

SIGNATURE

Jonas Donner, PhD, Head of Research and Development
at Genoscooper Laboratories



23/5/2015

MyDogDNA

8700 2321 6414 275

Thistleglen Chiquitita, Finnish Lapphund

APPENDIX Explanation of the results of the tested disorders



Autosomal recessive inheritance (ARI)

Clear - A dog carries no copies of the tested mutation and has no or reduced likelihood of developing and passing on the disease/condition.

Carrier - A dog carries one copy of the tested mutation. Carriers typically have a normal, healthy appearance but pass on the mutation to approximately 50% of their offspring.

Affected - A dog carries two copies of the tested mutation and is at high or increased risk of developing the disease/condition.

Autosomal dominant inheritance (ADI)

Clear - A dog carries no copies of the tested mutation and has no or reduced likelihood of developing and passing on the disease/condition.

Affected - A dog carries one or two copies of the tested mutation and is at high or increased risk of developing the disease/condition.

X-linked recessive inheritance (X-linked)

Clear - A dog carries no copies of the tested mutation and has no or reduced likelihood of developing and passing on the disease/condition.

Carrier - Female carriers typically have a normal, healthy appearance but carry one copy of the tested mutation on one of their X chromosomes. As males only have one X chromosome, there are no male carriers.

Affected - Affected female dogs carry two mutated copies of the tested mutation. Affected males carry one copy of the tested mutation on their single X chromosome. Affected dogs are at high or increased risk of developing the disease/condition.

Please note that the descriptions above are generalized based on typically observed inheritance patterns. When obtaining a carrier or affected test result, always refer to the corresponding online test documentation for more detailed information on the condition and any exceptions.

Genoscooper Laboratories - Legal Notice

Genoscooper Laboratories' MyDogDNA services and test results are produced based on samples and materials supplied by the Client. Testing and analysis is performed by using methods and processes that Genoscooper Laboratories deems appropriate. Genoscooper Laboratories reserves the right to make changes in the collection of the single-gene tests included in the MyDogDNA testing service as well as to remove results derived from them, if new information comes available that in any way questions the validity of the test results. Results provided by Genoscooper Laboratories are prepared solely for the use of the Client. For further information, please visit: www.mydogdna.com/legal-notice