



15/7/2014

MyDogDNA PASS

8700 2321 8949 500

Peruddens So Far Away, Golden Retriever

Registered name: Peruddens So Far Away

Nickname: Gibbs

Registration ID: SE31717/2013

Microchip: 752098100649135

Breed: Golden Retriever

Gender: Male

Owner: Roland Mayné

Country: Belgium

Testing date: 14/7/2014

DNA identification profile:
Identified with standard ISAG
markers



Test results - Known disorders in the breed

Disorder	Type	Mode of inheritance	Result
Epidermolysis bullosa, dystrophic	Skin disorders	Autosomal Recessive	Clear
Golden Retriever Progressive Retinal Atrophy 1 (GR_PRA 1)	Eye disorders	Autosomal Recessive	Clear
Muscular Dystrophy, Duchenne type or Golden Retriever Muscular Dystrophy (GRMD)	Muscular disorders	X-linked 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



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Test results - Traits

Trait	Genotype	Description
Colour Locus A	at/at	The dog is homozygous for at-allele.
Colour Locus B	B/B B/bd bd/bd	The dog does not carry any of the tested b alleles.
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	KB/ky kbr/ky	The dog is heterozygous for either KB or kbr 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/G	The dog is heterozygous for this variant. This means that it carries one copy of the genetic variant typically associated with small body mass and one copy typically associated with large body mass. This genotype is often observed e.g. in Shetland Sheepdog, Border Collie and Welsh Corgi.
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	C/C	Your dog is homozygous for (carries two copies of) a genetic variant typically associated with floppy ears. This genotype is common in breeds like English Springer Spaniel, Leonberger, Saluki, and Dachshunds. Interestingly, the C-allele of this variant is the ancestral allele frequent in wolf.
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)).

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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

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

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

Mode of inheritance

Autosomal Recessive
 Autosomal Recessive

Result

Clear
 Clear

Eye disorders**Disorder**

Achromatopsia or Cone Degeneration (CD); mutation originally found in German Shorthaired Pointer
 Autosomal Dominant Progressive Retinal Atrophy (ADPRA)
 Canine Multifocal Retinopathy 1 (cmr1), Mastiff-related breeds mutation
 Canine Multifocal Retinopathy 2 (cmr2); mutation originally found in Coton de Tulear
 Canine Multifocal Retinopathy 3 (cmr3); mutation originally found in Lapponian Herder
 Cone-rod Dystrophy (cord1-PRA / crd4)
 Cone-rod dystrophy (crd SWD); mutation originally found in Standard Wire-haired Dachshund
 Generalized Progressive Retinal Atrophy; mutation originally found in Schapendoes
 Primary Hereditary Cataract (PHC); mutation originally found in Australian Shepherd
 Primary Lens Luxation (PLL)
 Primary Open Angle Glaucoma; mutation originally found in Beagle
 Rod-Cone Dysplasia 1 (rcd1); mutation originally found in Irish Setter
 Rod-Cone Dysplasia 1a (rcd1a); mutation originally found in Sloughi
 Rod-Cone Dysplasia 3 (rcd3)
 X-Linked Progressive Retinal Atrophy 1 (XLPRA1)

Mode of inheritance

Autosomal Recessive
 Autosomal Dominant
 Autosomal Recessive
 Autosomal Recessive
 Autosomal Recessive
 Autosomal Recessive
 Autosomal Recessive
 Autosomal Recessive
 Autosomal Dominant (Incomplete Penetrance)
 Autosomal Recessive
 Autosomal Recessive
 Autosomal Recessive
 Autosomal Recessive
 Autosomal Recessive
 X-linked Recessive

Result

Clear
 Clear
 Clear
 Clear
 Clear
 Clear
 Clear
 Clear
 Clear
 Clear
 Clear
 Clear
 Clear
 Clear



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



Immunological disorders

Disorder	Mode of inheritance	Result
ARSCID (Autosomal Recessive Severe Combined Immunodeficiency)	Autosomal Recessive	Clear
C3 deficiency	Autosomal Recessive	Clear
X-linked Severe Combined Immunodeficiency (XSCID); mutation originally found in Basset Hound	X-linked Recessive	Clear
X-linked Severe Combined Immunodeficiency (XSCID); mutation originally found in Cardigan Welsh Corgi	X-linked Recessive	Clear

Kidney disorders

Disorder	Mode of inheritance	Result
Hyperuricosuria and Hyperuricemia (HUU) or Urolithiasis	Autosomal Recessive	Clear
Polycystic Kidney Disease (PKD)	Autosomal Dominant	Clear
Primary hyperoxaluria (PH); mutation originally found in Coton de Tulear	Autosomal Recessive	Clear
X-linked Hereditary Nephropathy (XLHN)	X-linked Recessive	Clear

Metabolic disorders

Disorder	Mode of inheritance	Result
Glycogen Storage Disease, Type Ia (GSDIa)	Autosomal Recessive	Clear
Glycogen Storage Disease, type II or Pompe's disease	Autosomal Recessive	Clear
Glycogen Storage Disease, type IIIa (GSDIIIa)	Autosomal Recessive	Clear
Hypocatalasia or Acatlasemia	Autosomal Recessive	Clear
Mucopolysaccharidosis Type IIIA (MPSIIIA); mutation originally found in Dachshund	Autosomal Recessive	Clear
Mucopolysaccharidosis Type VI (MPSVI); mutation originally found in Poodle	Autosomal Recessive	Clear
Mucopolysaccharidosis Type VII (MPSVII); mutation originally found in Brazilian Terrier	Autosomal Recessive	Clear
Pyruvate Dehydrogenase Deficiency	Autosomal Recessive	Clear



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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
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
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 2 (NCL2)	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



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



Neuromuscular disorders

Disorder

- Alpha Fucosidosis
- Episodic falling (EF)
- GM1 Gangliosidosis; mutation originally found in Alaskan Husky
- GM1 Gangliosidosis; mutation originally found in Portuguese Water Dog
- GM1 Gangliosidosis; mutation originally found in Shiba Dog
- GM2 Gangliosidosis; mutation originally found in Toy Poodle
- Globoid Cell Leukodystrophy (GLD) or Krabbe's disease, Terrier mutation
- Hyperekplexia or Startle Disease

Mode of inheritance

- Autosomal Recessive
- Autosomal Recessive
- Autosomal Recessive
- Autosomal Recessive
- Autosomal Recessive
- Autosomal Recessive
- Autosomal Recessive
- Autosomal Recessive

Result

- Clear
- Clear
- Clear
- Clear
- Clear
- Clear
- Clear
- Clear

Skeletal disorders

Disorder

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

Mode of inheritance

- Autosomal Recessive
- Autosomal Dominant
- Autosomal Recessive
- Autosomal Recessive

Result

- Clear
- Clear
- Clear
- Clear



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



Skin disorders

Disorder

Ectodermal dysplasia or Skin Fragility Syndrome (ED-SFS)
Epidermolytic Hyperkeratosis or Ichthyosis in Norfolk Terrier
Musladin-Lueke syndrome (MLS)

Mode of inheritance

Autosomal Recessive
Autosomal Recessive
Autosomal Recessive

Result

Clear
Clear
Clear

Other disorders

Disorder

Congenital Keratoconjunctivitis Sicca and Ichthyosiform Dermatitis (CKCSID) or Dry Eye Curly Coat Syndrome
Gallbladder Mucocele Formation
Narcolepsy; mutation originally found in Dobermann
Persistant Mullerian Duct Syndrome (PMDS), mutation originally found in Miniature Schnauzer
Primary Ciliary Dyskinesia (PCD)

Mode of inheritance

Autosomal Recessive
Autosomal Dominant
Autosomal Recessive
Autosomal Recessive
Autosomal Recessive

Result

Clear
Clear
Clear
Clear
Clear

On behalf of Genoscooper Laboratories,


SIGNATURE

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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.

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