



26/5/2015

MyDogDNA

8700 2321 8678 083

Wolfe Creeks Boss Hoss , Mastiff

Registered name: Wolfe Creeks Boss Hoss

Nickname: Boss

Registration ID: WS42349102

Microchip: none

Breed: Mastiff

Gender: Male

Owner: Joseph Moody

Country: United States

Testing date: 26/5/2015

DNA identification profile:
Identified with standard AKC
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
Autosomal Dominant Progressive Retinal Atrophy (ADPRA)	Eye disorders	Autosomal Dominant	Clear
Canine Multifocal Retinopathy 1 (CMR1), Mastiff-related breeds mutation	Eye 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



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Test results - Traits

Trait	Genotype	Description
Colour Locus A	ay/ay	The dog is homozygous for ay-allele.
Colour Locus B	B/B B/bd bd/bd	The dog does not carry any of the tested b alleles.
Colour Locus E	Em/Em	The dog is homozygous for EM 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/TC	The dog is not genetically likely to express furnishings.
Body mass, insulin-like growth factor 1 (IGF1) gene variant	G/G	The dog is homozygous for the genetic variant typically associated with large body mass. This genotype is common e.g. in Great Dane, Newfoundland Dog and Greater Swiss Mountain Dog.
Coat length / "Fluffy" in Welsh Corgi	G/G	The dog carries two copies of the genetic variant typically associated with a short-haired 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)).

On behalf of Genoscooper Laboratories,

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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

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

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 (XLPRA1)

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

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 Dominant
Autosomal Recessive
X-linked Recessive

Result

Clear
Clear
Clear
Clear

Metabolic disorders

Disorder

Glycogen Storage Disease Type II (GSD II), or Pompe's disease
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
Autosomal Recessive

Result

Clear
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



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



Neuromuscular disorders

Disorder

Episodic falling (EF)
 Globoid Cell Leukodystrophy (GLD) or Krabbe's disease, Terrier mutation
 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

Mode of inheritance

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

Result

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 (Incomplete Penetrance)
 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	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
Persistent Müllerian Duct Syndrome (PMDS), mutation originally found in Miniature Schnauzer	Autosomal Recessive	Clear
Primary Ciliary Dyskinesia (PCD)	Autosomal Recessive	Clear

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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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