

Animal Name: Keeper

Owner:

Allison Britton

Membership Number: 4100091094

Member Body/Breed Club: DOGS QUEENSLAND

Approved Collection Method:

YES









Members of







orivet.com





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Owner's details

Name: Allison Britton

Animal's Details

Registered Name: Keeper Pet Name: Keeper Registration Number: ISDS 00/333988 Breed: **Border Collie** 966000100550334 Microchip Number: Male Sex: Date of Birth: 15th Jun 2014 Brown/White Colour:

Sample Collection Details

Case Number: 21CKU0501

Collected By: Rebecca Ardery

Approved Collection: YES

Sample Type: SWAB

Test Details

Test Requested : Border Collie - Full Breed Profile

Pet Name : Keeper

Date of Test : 28th Jul 2021

Authorisation

Sample with Lab ID Number 21CKU0501 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

(huel ____

George Sofronidis BSc (Hons)

N. M.

bsi ISO 9001 Quality Management

Dr Noam Pik BVSc, MAVS





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Animal's Details

Registered Name :	Keeper
Pet Name :	Keeper
Registration Number:	ISDS 00/333988
Breed :	Border Collie
Microchip Number:	966000100550334
Sex:	Male
Date of Birth :	15th Jun 2014
Colour:	Brown/White

Tests Reported

Diseases	Result
Adult Onset Deafness Border Collie (Linkage Association Test)	NEGATIVE FOR THE EAOD RISK VARIANT [RESEARCH ONLY] - NO COPY DETECTED
Cobalamin Malabsorption: Cubilin Deficiency (Border Collie Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Collie Eye Anomaly/Choroidal Hypoplasia	CARRIER [ONE COPY OF THE VARIANT DETECTED]
Cystinuria (SLC3A1) (Australian Cattle Dog Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Degenerative Myelopathy	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Goniodysgenesis and Glaucoma (Border Collie)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Ivermectin Sensitivity MDR1 (Multi Drug Resistance)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Myotonia Hereditaria (Cattle Dog Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Neuronal Ceroid Lipofuscinosis 5 (Border Collie Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Primary Lens Luxation	NEGATIVE / CLEAR [NO VARIANT DETECTED]

Owner's Name : Allison Britton Pet Name : Keeper







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Tests Reported

Diseases	Result
Raine Syndrome Dental Hypomineralisation (Border Collie)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Trapped Neutrophil Syndrome (Border Collie Type)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
von Willebrand's Disease Type II	HETEROZYGOUS [ONE COPY OF THE POLYMORPHIC MUTATION DETECTED]

Traits	Result
ELocus - (Cream/Red/Yellow)	E/E - DOMINANT BLACK DOES NOT CARRYYELLOW/RED/WHITE
E Locus (Cattle Dog Cream Variant) e2	${\sf E^2/E^2}$ – DOMINANT BLACK DOES NOT CARRY "AUSTRALIAN CATTLE DOG" TYPE CREAM
Brown (345DELPRO) Deletion	B ^d /B ^d - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION]
Brown (GLNT331STOP) Stop Codon	b ^s /b ^s - BROWN/CHOCOLATE, LIVER OR RED [STOP CODON]
Brown (SER41CYS) Insertion Codon	B ^c /B ^c - DOES NOT CARRY BROWN/RED/LIVER of CHOCOLATE [INSERTION]
Liver [TYRP1] (Lancashire Heeler Type)	B ^e /B ^e - DOES NOT CARRY BROWN/LIVER [TYRP1]
D (Dilute) Locus	D/D - NO COPYOF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL
K Locus (Dominant Black)	KB $/$ k $^{\rm U}$ or k $^{\rm br}$ - ONE COPY DOMINANT BLACK (KB) and ONE COPY OF NON-BLACK (k $^{\rm U}$) dog MAY be brindled
A Locus (Fawn/Sable;Tri/Tan Points)	a ^t /a ^t - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]
Merle	m/m [171/171bp] - NON MERLE SOLID COAT (NO CHANGE TO COAT COLOUR)
Long Hair Gene (Canine C95F)	PO SITIVE - SHO WING THE PHENOTYPE
Shedding (MC5R)	shd/shd [HIGH SHEDDING] - TWO COPIES OF THE shd (MC5R) VARIANT DETECTED REFER TO R151W (IC) FOR LEVEL OF SHEDDING

Owner's Name : Allison Britton Pet Name : Keeper







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Tests Reported

Traits	Result
Coat Composition CFA28 Gene (Double/Single Coat)	udc/udc - TWO COPIES OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED
Curly Coat/Hair Curl (KRT71 R151W)	NEGATIVE FOR THE KRT71 R151W (C1) VARIANT - NOT SHOWING THE CURLY COAT PHENOTYPE

Owner's Name : Allison Britton Pet Name : Keeper



Glossary of Genetic Terms (Results)



The terms below are provided to help clarify certain results phrases on your genetic report. The phrases below are those as reported by Orivet and may vary from one laboratory to the other.

NEGATIVE / CLEAR [NO VARIANT DETECTED]

No presence of the variant (mutation) has been detected. The animal is clear of the disease and will not pass on any disease-causing mutation.

CARRIER [ONE COPY OF THE VARIANT DETECTED]

This is also referred to as HETEROZYGOUS. One copy of the normal gene and copy of the affected (mutant) gene has been detected. The animal will not exhibit disease symptoms or develop the disease. Consideration needs to be taken if breeding this animal - if breeding with another carrier or affected or unknown then it may produce an affected offspring.

POSITIVE / AT RISK [TWO COPIES OF THE VARIANT DETECTED]

Two copies of the disease gene variant (mutation) have been detected also referred to as HOMOZYGOUS for the variant. The animal may show symptoms (affected) associated with the disease. Appropriate treatment should be pursued by consulting a Veterinarian.

POSITIVE HET EROZYGOUS [ONE COPY OF THE DOMINANT VARIANT DETECTED]

Also referred to as POSITIVE ONE COPY or POSITIVE HETEROZYGOUS. This result is associated with a disease that has a dominant mode of inheritance. One copy of the normal gene (wild type) and affected (mutant) gene is present. Appropriate treatment should be pursued by consulting a Veterinarian. This result can still be used to produce a clear offspring.

NORMAL BY PARENTAGE HISTORY

The sample submitted has had its parentage verified by DNA. By interrogating the DNA profiles of the Dam, Sire and Offspring this information together with the history submitted for the parents excludes this animal from having this disease. The controls run confirm that the dog is NORMAL for the disease requested.

NORMAL BY PEDIGREE

The sample submitted has had its parentage verified by Pedigree. The pedigree has been provided and details (genetic testing reports) of the parents have been included. Parentage could not be determined via DNA profile as no sample was submitted.

NO RESULTS AVAILABLE

Insufficient information has been provided to provide a result for this test. Sire and Dam information and/or sample may be required. This result is mostly associated with tests that have a patent/license and therefore certain restrictions apply. Please contact the laboratory to discuss.

INDET ERMINABLE

The sample submitted has failed to give a conclusive result. This result is mainly due to the sample failing to "cluster" or result in the current grouping. A recollection is required at no charge.

DNA PROFILE

Also known as a DNA fingerprint. This is unique for the animal. No animal shares the same DNA profile. An individual's DNA profile is inherited from both parents and can be used for verifying parentage (pedigrees). This profile contains no disease or trait information and is simply a unique DNA signature for that animal.

Glossary of Genetic Terms (Results)



The terms below are provided to help clarify certain results phrases on your genetic report. The phrases below are those as reported by Orivet and may vary from one laboratory to the other.

PARENTAGE VERIFICATION/ QUALIFIES/CONFIRMED Or DOES NOT QUALIFY/EXCLUDED

Parentage is determined by examining the markers on the DNA profile. A result is generated and stated for all DNA parentage requests. Parentage confirmation reports can only be generated if a DNA profile has been carried out for Dam, Offspring and possible Sire/s.

PENDING

Results for this test are still being processed. Some tests are run independently and are reported at a later date. When completed, the result will be emailed. APPROVED COLLECTION METHOD (NO) The sample submitted for testing HAS NOT met the requirements recommended by member bodies for the DNA collection process.

TRAIT (PHENOTYPE)

A feature that an animal is born with (a genetically determined characteristic). Traits are a visual phenotype that range from colour to hairlength, and also includes certain features such as tail length. If an individual is AFFECTED for a trait then it will show that characteristic eg.AFFECTED for the B (Brown) Locus or bb will be brown/chocolate.

POSITIVE - SHOWING THE PHENOTYPE

The animal is showing the trait or phenotype tested.

CLARIFICATION OF GENETIC TESTING

The goal of genetic testing is to provide breeders with relevant information to improve breeding practices in the interest of animal health. However, genetic inheritance is not a simple process, and may be complicated by several factors. Below is some information to help clarify these factors.

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- 1) Some diseases may demonstrate signs of what Geneticists call "genetic heterogeneity". This is a term to describe an apparently single condition that may be caused by more than one mutation and/or gene
- 2) It is possible that there exists more than one disease that presents in a similar fashion and segregates in a single breed. These conditions –although phenotypically similar may be caused by separate mutations and/or genes.
- 3) It is possible that the disease affecting your breed may be what Geneticists call an "oligogenic disease". This is a term to describe the existence of additional genes that may modify the action of a dominant gene associated with a disease. These modifier genes may for example give rise to a variable age of onset for a particular condition, or affect the penetrance of a particular mutation such that some animals may never develop the condition.

The range of hereditary diseases continues to increase and we see some that are relatively benign and others that can cause severe and/or fatal disease. Diagnosis of any disease should be based on pedigree history, clinical signs, history (incidence) of the disease and the specific genetic test for the disease. Penetrance of a disease will always vary not only from breed to breed but within a breed, and will vary with different diseases. Factors that influence penetrance are genetics, nutrition and environment. Although genetic testing should be a priority for breeders, we strongly recommend that temperament and phenotype also be considered when breeding.

Orivet Genetic Pet Care aims to frequently update breeders with the latest research from the scientific literature. If breeders have any questions regarding a particular condition, please contact us on (03) 9534 1544 or admin@orivet.com and we will be happy to work with you to answer any relevant questions.



Single Report

Animal Name: Keeper

Owner:

Allison Britton

Membership Number: 4100091094

Member Body/Breed Club: DOGS QUEENSLAND

Approved Collection Method: **♥** YES









Members of









Single Report



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Owner's details

Name: Allison Britton

Animal's Details

Registered Name: Keeper Pet Name: Keeper Registration Number: ISDS 00/333988 Breed: **Border Collie** 966000100550334 Microchip Number: Male Sex: Date of Birth: 15th Jun 2014 Colour: Brown/White

Sample Collection Details

Case Number:	20K08272
Collected By:	Dr. David Strachan
Approved Collection:	YES
Sample Type :	SWAB

Test Details

Test Requested :	Sensory Neuropathy (Border Collie Type)
Pet Name :	Keeper
Date of Test :	9th Oct 2020

Authorisation

Sample with Lab ID Number 20K08272 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

Chuek

George Sofronidis BSc (Hons)

N.ML

bsi ISO 9001 Quality Management

Dr Noam Pik BVSc, MAVS



Single Report



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Animal's Details

Registered Name :	Keeper
Pet Name :	Keeper
Registration Number :	ISDS 00/333988
Breed :	Border Collie
Microchip Number:	966000100550334
Sex:	Male
Date of Birth :	15th Jun 2014
Colour:	Brown/White

Sample with Lab ID Number 20K08272 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: SENSORY NEUROPATHY (BORDER COLLIE TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Gene: FAM134B

Variant Detected: Inversion

We have scanned the DNA and the genotype of this animal is NORMAL – no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease–causing variant. Can be mated with an untested animal and WILL NOT produce any positive/affected offspring.

Clarification of Genetic Testing

Genetic inheritance is not a simple process, and may be complicated by several factors. Below is some information to help clarify these factors.

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Owner's Name: Allison Britton Pet Name: Keeper

