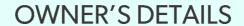


GENETIC COMPREHENSIVE REPORT



Membership Number: 3002120650 Member Body/Breed Club: DOGS VICTORIA

Accredited and Compliant with











Members of



OWNER'S DETAILS



Name :

Address:

ANIMAL'S DETAILS

Registered Name : Jarracada Olivia

Pet Name : Olivia

Registration Number: 3100328808
Breed: Mixed Breed

Microchip Number: 956000005886504

Sex: Female

Date of Birth: 15th Aug 2015

Colour:

SAMPLE COLLECTION DETAILS

Case Number: 20G59983

Collected By:

Approved Collection : YES
Sample Type : SWAB

TEST DETAILS

Test Requested : Degenerative Myelopathy

Pet Name : Olivia

Date of Test: 31st Dec 2020

Sample with Lab ID Number 20G59983 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

RESULTS REVIEWED AND CONFIRMED BY

Chuel

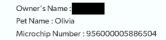
George Sofrondis BSc (Hons)

N.M.

Dr Noam Pik BVSc, MAVS











ANIMAL'S DETAILS

Registered Name : Jarracada Olivia

Pet Name : Olivia

Registration Number: 3100328808

Breed: Mixed Breed

Sex: Female

Date of Birth: 15th Aug 2015

Colour:

Microchip Number:

P1 2 A G P3_2 A A P3_3 G G P11_3 C C P12_1 G G P24_2 G G P12_3 G G P30_3 A T P13_1 CC P24_3 AC P31_1 CC P28_3 AA P31_3 GG P25_1 AA P32_2 CG P13_2 AA P13_3 A A P25_2 A A P25_3 A C P32_3 G G P33_1 G G P14_1 A A P10_1 G G P26_1 A G P33_3 G G P26_2 A A P14_2 C C P26_3 G G P14_3 A A P15_1 A G P34_1 A C P34_2 A A P34_3 A C P10_3 C C P15_2 A G P15_3 C C P16_3 G G P35_1 G G P35_2 G G P36_1 A C P17_1 G G P36_2 C C P37_2 G G P17_2 A A P29_1 G G P37_3 A A P38_1 C C P38_2 G G P27_1 G G P17_3 G G P27_2 A C P4_3 A A P18_2 A A P18_3 C C P5_1 G G P11_1 P19_1 AT P19_2 G G P5_2 G G P19_3 G G P2_1 G G P2_3 A C P27_3 A T P20_1 A A P20_3 A A P5_3 G G P11_2 C C P6_2 A G P6_3 A A P21_1 A A P21_3 A A P22_2 A A P28_1 G G P7_1 CC P7_2 AG P28_2 CG P7_3 AA P29_2 GG P8_1 G G P22_3 G G A G P8_3 A G P23_1 C C P9_3 A T P23_2 C C P23_3 A A P24_1 G G P3_1

956000005886504











ANIMAL'S DETAILS

Registered Name : Jarracada Olivia

Pet Name : Olivia

Registration Number: 3100328808

Breed: Mixed Breed

Microchip Number: 956000005886504

Sex: Female

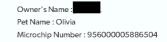
Date of Birth: 15th Aug 2015

Colour:

BICF2P1286728	A G	BICF2P1362405	A A	BICF2P1369088	A G	BICF2P1391407	A G	
BICF2P164304	G G	BICF2P184963	A G	BICF2P251850	A A	BICF2P277987	G G	
BICF2P345488	АА	BICF2P401677	A A	BICF2P414351	A G	BICF2P42825	A G	
BICF2P452541	A G	BICF2P457665	A A	BICF2P464536	A G	BICF2P465276	G G	
BICF2P46604	G G	BICF2P46672	A A	BICF2P496466	A G	BICF2P496837	A G	
BICF2P567552	A G	BICF2P590440	G G	BICF2P600196	GG	BICF2P615597	СС	
BICF2P635478	A G	BICF2P651575	G G	BICF2P651577	A A	BICF2P70891	A C	
BICF2P725743	G G	BICF2P728698	G G	BICF2P789367	A A	BICF2P805553	G G	
BICF2P840653	A G	BICF2P885380	A G	BICF2P923421	A G	BICF2P950116	АА	
BICF2P963969	АА	BICF2P998036	СС	BICF2S22912385	A G	BICF2S22926284	A G	
BICF2S22953709	A C	BICF2S23018785	A G	BICF2S23111132	A G	BICF2S23138418	A G	
BICF2S23141330	$T\;T$	BICF2S23214514	C C	BICF2S23326150	G G	BICF2S23329382	A C	
BICF2S23357186	C G	BICF2S2338108	A A	BICF2S23434277	CC	BICF2S23529290	G G	
BICF2S23535154	G G	BICF2S23614068	A A	BICF2S2399705	A G	G1425f16S28	G G	
TIGRP2P255960_rs9030578	АА	TIGRP2P283310_rs8881748	G G	TIGRP2P328303_rs8531882	A C	TIGRP2P354499_rs9162547	АА	
TIGRP2P356245_rs8830240	АА	TIGRP2P362535_rs9130694	A G	TIGRP2P389035_rs9038546	A G	BICF2G630103624	СС	
BICF2G630111735	АА	BICF2G630122583	A G	BICF2G630133028	G G	BICF2G630133994	A G	
BICF2G630149030	A G	BICF2G630200354	G G	BICF2G630209886	A A	BICF2G630220326	G G	
BICF2G630221287	АА	BICF2G630264994	A A	BICF2G630276039	A A	BICF2G630276136	A G	
BICF2G630306265	A G	BICF2G630326688	A A	BICF2G630328172	A G	BICF2G630328323	АА	
BICF2G630367177	СС	BICF2G630409193	A G	BICF2G630453264	CG	BICF2G630474528	G G	
BICF2G630499189	A G	BICF2G630539759	A G	BICF2G630552597	A A	BICF2G630653298	АА	
BICF2G630666362	АА	BICF2G630691635	G G	BICF2G630704611	A A	BICF2G630708384	АА	
BICF2G630762459	СС	BICF2G63078341	A G	BICF2G63088115	A G	BICF2P1010945	АА	
BICF2P105070	A G	BICF2P1138733	A G	BICF2P1159837	A G	BICF2P1181787	A G	
BICF2P1192522	АА	BICF2P1226745	A G					











ANIMAL'S DETAILS

Registered Name : Jarracada Olivia

Pet Name : Olivia

Registration Number: 3100328808

Breed: Mixed Breed

Microchip Number: 956000005886504

Sex: Female

Date of Birth: 15th Aug 2015

Colour:

BICF2P1271174	G G	BICF2P129347	G G	BICF2P129670	A G	BICF2P1308802	A C
BICF2P1310805	АА	BICF2P1344095	АА	BICF2P1346673	A G	BICF2P1357746	АА
BICF2P1454500	АА	BICF2P155421	A C	BICF2P157421	A A	BICF2P182473	A G
BICF2P224656	АА	BICF2P237994	G G	BICF2P246592	A A	BICF2P250787	СС
BICF2P25730	АА	BICF2P283440	A G	BICF2P285489	G G	BICF2P345056	АА
BICF2P347679	G G	BICF2P378969	СС	BICF2P382742	GG	BICF2P415783	G G
BICF2P422152	G G	BICF2P508740	C G	BICF2P516667	A G	BICF2P553317	АА
BICF2P554817	АА	BICF2P561057	АА	BICF2P585943	A G	BICF2P624936	A G
BICF2P635172	G G	BICF2P643134	A G	BICF2P65087	A A	BICF2P651576	AA
BICF2P717226	АА	BICF2P751654	G G	BICF2P774003	A C	BICF2P798404	A G
BICF2P842510	A G	BICF2P856893	A G	BICF2P878175	A A	BICF2P935470	AA
BICF2P990814	A A	BICF2S22910736	АА	BICF2S22913753	G G	BICF2S22928800	A G
BICF2S22943825	АА	BICF2S23028732	A A	BICF2S23031254	C C	BICF2S23049416	A G
BICF2S23057560	A G	BICF2S23124313	A G	BICF2S23126079	A G	BICF2S23246455	АА
BICF2S23250041	АА	BICF2S23333411	АА	BICF2S23356653	A A	BICF2S23429022	G G
BICF2S23449478	A G	BICF2S23519644	G G	BICF2S2351979	A G	BICF2S2359809	G G
BICF2S236196	A G	BICF2S23626625	G G	BICF2S23648905	A G	BICF2S23649947	G G
BICF2S23713161	A G	BICF2S23737033	A G	BICF2S24511913	A G	TIGRP2P106843_rs8858816	A G
TIGRP2P116826_rs8741680	A G	TIGRP2P164720_rs8839809	АА	TIGRP2P177606_rs8886563	G G	TIGRP2P215708_rs8686029	ΤT
TIGRP2P316532_rs8597522	АА	TIGRP2P372104_rs9153277	G G	TIGRP2P402042_rs9121006	G G	TIGRP2P406551_rs9235397	A G
TIGRP2P407751_rs8803124	СС	BICF2G630646431	АА	BICF2G630102146	A G	BICF2G630149581	G G
BICF2G630159183	G G	BICF2G630170631	СС	BICF2G630187649	A T	BICF2G630187658	A G
BICF2G630204463	G G	BICF2G630209373	A A	BICF2G630209508	G G	BICF2G630255439	G G
BICF2G630271966	G G	BICF2G630274628	A G	BICF2G630307199	A C	BICF2G630340940	AA
BICF2G630340944	A A	BICF2G630365778	A C	BICF2G630382763	G G	BICF2G630437783	A C
BICF2G630449851	A G	BICF2G630467607	A C	BICF2G630488267	G G	BICF2G630504410	A G
BICF2G630552598	A A	BICF2G630558437	G G	BICF2G630594648	G G	BICF2G630634836	СС
BICF2G630641678	A G	BICF2G630689403	G G	BICF2G630798972	G G	BICF2G630814422	A C
BICF2G63090019	ΤT	BICF2P1019402	A G	BICF2P103615	G G	BICF2P1060087	A G
BICF2P1104630	A G	BICF2P1141966	A G	BICF2P1173491	A G	BICF2P1183665	АА
BICF2P1193353	G G	BICF2P1216677	АА	BICF2P1226838	A G	BICF2P1232055	G G











Sample with Lab ID Number 20G59983 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: DEGENERATIVE MYELOPATHY

Result: CARRIER [ONE COPY OF THE VARIANT DETECTED]

Gene: Superoxide dismutase 1 (SOD1) on chromosome 31 Variant Detected: Base Substitutionc.118G>Ap.Glu40Lys

We have scanned your animal's DNA and one copy of the normal gene and copy of the positive (mutant) gene has been detected. The genotype of the animal tested is CARRIER this result may also be referred to as HETEROZYGOUS or A/N or "+/-". Being an autosomal recessive disease the animal will not exhibit disease symptoms or develop the disease. Consideration needs to be taken if breeding this animal as it may produce affected offspring if mated to another carrier. It is recommended to have any breeding partner tested before breeding.

Sample with Lab ID Number 20G59983 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: GENERALISED MYOCLONIC EPILEPSY (RHODESIAN RIDGEBACK TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]

Gene: DIRAS family GTPase 1 (DIRAS1) on Chromosome 20

Variant Detected: Nucleotide Deletionc.564-567delAGACp.frameshift

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.







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 HETEROZYGOUS [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.

INDETERMINABLE

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.

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 clarifythese factors.

- 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.