



Genetic Comprehensive Report Labracadabra raReport



Peter Howie

Membership Number: Not assigned

Member Body/Breed Club: Not assigned

Approved Collection Method: No





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Genetic Comprehensive Report

Owner's details

Name: Peter Howie

ABRADOODLES

LABRADOODLES

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Animal's Details

Registered Name:

Pet Name: RAI 03-22

Registration Number:

Breed: Standard Poodle

Microchip Number: 953010006019275 00 DLES

Sex: Intact Male

Date of Birth: 19th Oct 2022

Colour: BLUE MERLE

Sample Collection Details

Case Number: 23A128273

RADOODLES LABRADOOD

Collected By:

Approved Collection: No

Sample Type : SWAB

Test Details

Test Requested : Groodle - Full Breed Profile

A B R A Pet Name E S RAI 03-22A B R A D O O D L E S

Date of Test: 19th Jan 2023

LABRADOODLES

Authorisation

Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with

A B R Athe following result reported:

George Sofronidis BSc (Hons)

N. PML

Dr Noam Pik BVSc, MAVS





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Genetic Comprehensive Report

Animal's Details

Registered Name:

Pet Name : RAI 03-22^{A B R A D O O D L E}

Registration Number:

Breed: Standard Poodle

Microchip Number: 953010006019275

Sex: Intact Male

Date of Birth: 19th Oct 2022

Colour: BLUE MERLE

P1_2 G G P3_2 A A P3_3 G G P11_3 C C P12_1 G G P24_2 A G P12_3 G G P30_3 A T P13_1 C C P24_3 C C P31_1 A A P28_3 A T P31_3 G G P25_1 G G P32_2 C G P13_2 A A P13_3 A C P25_2 A G P25_3 A C P32_3 G G P33_1 G G P14_1 A T P10_1 G G P26_1 A G P33_3 A G P26_2 A A P14_2 G G P26_3 G G P14_3 A C P15_1 A G P34_1 A C P34_2 G G P34_3 A A P10_3 C C P15_2 G G P15_3 C C P16_3 C G P35_1 G G P35_2 A G P36_1 A C P17_1 A A P36_2 C C P37_2 A G P17_2 RA A P29_1 G G P37_3 G G P38_1 C A P38_2 G G P27_1 G G P17_3 A A P27_2 A A P4_3 A A P18_2 A C P18_3 A C P5_1 G G P11_1 G G P19_1 A T P19_2 G G P5_2 G G P19_3 G G P2_1 G G P2_3 A A P27_3 A A P20_1 A A

P19_1 A T P19_2 G G P5_2 G G P19_3 G G P2_1 G G P2_3 A A P27_3 A A P20_1 A A P20_3 A A P5_3 A A P11_2 C G P6_2 A G P6_3 C C P21_1 A G P21_3 A A P22_2 A C

P28_1 G G P7_1 C C P7_2 A G P28_2 G G P7_3 A G P29_2 G G P8_1 A G P22_3 G G

P8_2 G G P8_3 G G P23_1 C G P9_3 A T P23_2 C C P23_3 G G P24_1 G G P3_1 A G

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Labracadabra

Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275



Genetic Comprehensive Report



Animal's Details

Registered Name:

Pet Name: RAI 03-22

Registration Number:

BICF2G630276136

BICF2P46672

Breed: Standard Poodle

BICF2G630326688

BICF2P496837

Microchip Number: 953010006019275

Intact Male Sex:

Date of Birth: 19th Oct 2022

Colour: **BLUE MERLE**

BICF2G630103624

BICF2G630133994 S BICF2G630149030 OBICF2G630200354 BICF2G630220326 BICF2G630221287 BICF2G630264994

BICF2G630328323 BICF2G630367177 BICF2G630409193 BICF2G630474528 BICF2G630499189 BICF2G630539759 BICF2G630653298 BICF2G630666362 BICF2G630691635

BICF2G630306265

BICF2G630708384 BICF2G63078341 BICF2G630762459 BICF2P1138733 BICF2P1010945 BICF2P105070 BICF2P1181787 BICF2P1192522

BICF2P1226745 BICF2P1362405 BICF2P1391407 BICF2P1369088 BICF2P184963 BICF2P251850 BICF2P277987

BICF2P414351 BICF2P42825 BICF2P401677 BICF2P457665 BICF2P464536 BICF2P465276

BICF2P496466

BICF2P590440 BICF2P600196 BICF2P615597 BICF2P651575 BICF2P651577 BICF2P70891 BICF2P728698 BICF2P789367 BICF2P805553

BICF2P885380 BICF2P923421 BICF2P950116 BICF2P998036 BICF2S22912385 BICF2S22926284 BICF2S23138418 BICF2S23018785 BICF2S23111132 BICF2S23214514 BICF2S23326150 BICF2S23329382

BICF2S2338108 BICF2S23434277 BICF2S23529290 BICF2S23614068 BICF2S2399705 G1425f16S28 L A B R A TIGRP2P283310_rs8881748 TIGRP2P354499_rs9162547 TIGRP2P328303_rs8531882

TIGRP2P362535_rs9130694 TIGRP2P389035 rs 9038546

A A BICF2G630209886 А А BICF2G630276039

BICF2G630328172 BICF2G630453264

BICF2G630552597 BICF2G630704611 CG

BICF2G63088115 А А

A G BICF2P1159837 BICF2P1286728

АА BICF2P164304 A G BICE2P345488

BICF2P452541

BICF2P46604 BICF2P567552 BICF2P635478 A A A A

CC BICF2P725743 G G BICF2P840653

BICF2P963969 АА BICF2S22953709

G G BICF2S23141330 BICF2S23357186

BICF2S23535154

TIGRP2P255960_rs9030578

TIGRP2P356245_rs8830240

Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275



Genetic Comprehensive Report



Animal's Details

Registered Name:

Pet Name: RAI 03-22

Registration Number:

Breed: Standard Poodle audula Labia audula

Microchip Number: 953010006019275

Sex: Intact Male

Date of Birth: 19th Oct 2022

Colour: BLUE MERLE

BICF2G630102146 BICF2G630187649 S BICF2G630187658 OBICF2G630204463 A A BICF2G630209373 BICF2G630209508 BICF2G630255439 A G BICF2G630274628 BICF2G630271966 BICF2G630307199 BICF2G630340940 BICF2G630340944 GG BICF2G630365778

BICF2G630340940

BICF2G630340940

BICF2G630340944

BICF2G630340944

BICF2G630340946

A B BICF2G630340947

C C BICF2G630449851

A G BICF2G630467607

C C BICF2G630488267

A A BICF2G630504410

G G BICF2G630552598

G G BICF2G630558437

A A BICF2G630634836

BICF2G630641678

G G BICF2G630689403

A G G BICF2G630689403

BICF2C630798972 G G BICF2C630814422 C C BICF2C63090019 A T BICF2P1019402
BICF2P103615 A G BICF2P1060087 A A BICF2P1104630 A A BICF2P1141966

BICF2P1173491 A A BICF2P1183665 A A BICF2P1193353 A G BICF2P1216677

BICF2P1226838 A G BICF2P1232055 A G BICF2P1271174 G G G BICF2P129347

BICF2P139670 A G BICF2P1308802 A C BICF2P1310805 A A BICF2P1344095 A G BICF2P1346673 A G BICF2P1357746 A G BICF2P1454500 A G BICF2P155421 A B R A G BICF2P155421

 BICF2P157421
 A A
 BICF2P182473
 G G BICF2P224656
 A C BICF2P237994
 A A

 BICF2P246592
 A C BICF2P250787
 C C BICF2P25730
 A A BICF2P283440
 A A

 BICF2P285489
 G G BICF2P345056
 A A BICF2P347679
 G G BICF2P378969
 A A

 BICF2P382742
 A A BICF2P415783
 G G BICF2P422152
 A G BICF2P508740
 C G

 BICF2P516667
 G G BICF2P553317
 A G BICF2P554817
 A A BICF2P561057
 A A

 BICF2P585943
 G G BICF2P624936
 A G BICF2P635172
 G G BICF2P643134
 G G

BICF2P65087 BICF2P651576 BICF2P717226 A C BICF2P751654 A G BICF2P774003 BICF2P798404 BICF2P842510 A G BICF2P856893 BICF2P878175 BICF2P935470 BICF2P990814 BICF2S22910736 A G BICF2S22913753 BICF2S22928800 BICF2S22943825 BICF2S23028732

BICF2S23429022 G G BICF2S23449478 BICF2S23519644 A G BICF2S2351979 BICF2S2359809 BICF2S236196 BICF2S23626625 CC BICF2S23648905 BICF2S23124313 BICF2S23713161 BICF2S23649947 BICF2S23737033 BICF2S24511913 A G TIGRP2P106843 rs 8858816 TIGRP2P116826_rs8741680 A G TIGRP2P164720 rs 8839809

TIGRP2P402042_rs9121006 G G TIGRP2P406551_rs9235397 A G TIGRP2P407751_rs8803124 A BICF2G630646431 A A

Labracadabra Labracadabra

Owner's Name: Peter Howie Pet Name: RAI 03-22

Microchip Number 953010006019275 Approved Collection Method: No







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Genetic Comprehensive Report

Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

A B R A D Test Reported : CONGENITAL EYE MALFORMATION (GOLDEN RETRIEVER)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]1

Gene: SIX6, chr8

Variant Detected: c.487C>Tp.Gln163*

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.

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Test Reported: CONGENITAL MACROTHROMBOCYTOPENIA

Result: CLEAR BY PARENTAGE - DNA VERIFIED [PARENTS NORMAL/CLEAR FOR DISEASE]

Gene: Tubulin beta 1 class VI (TUBB1) on Chromosome 24

Variant Detected: Base Substitutionc.745G>Ap.Asp249Asn

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

Test Reported: DEGENERATIVE MYELOPATHY

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]¹

Gene: Superoxide dismutase 1 (SOD1) on chromosome 31

Variant Detected: Base Substitutionc.118G>Ap.Glu40Lys

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.



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Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275







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Genetic Comprehensive Report

Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

A B R A D Test Reported : DYSTROPHIC EPIDERMOLYSIS BULLOSA (GOLDEN RETRIEVER TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]¹

Gene: Collagen type VII alpha 1 chain (COL7A1) Chromosome 20

Variant Detected : Base Substitutionc.5797G>Ap.Gly1906Ser

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.

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Test Reported: ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]¹

Gene: Spectrin beta erythrocytic (SPTB) Chromosome 8

Variant Detected: Base Substitutionc.6384C>TThr2110Met

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.

Test Reported: GANGLIOSIDOSIS GM2 (POODLE TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Gene: Hexosaminidase subunit beta (HEXB) on Chromosome 2

Variant Detected: Nucleotide Deletionc.391delGp.Val95fsX

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.



Labracadabra

Labracadabra

Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275







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Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Dest Reported: GENERALISED PRA 1 (GOLDEN RETRIEVER TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Genetic Comprehensive Report

Gene: Solute carrier family 4 member 3 (SLC4A3) on chromosome 37

Variant Detected: C.2601-2602 Insertion Cp.Glu868Arg-frameshiftX104

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease ass<mark>ociated variant (mutation)</mark> 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.

Test Reported: GENERALISED PRA 2 (GOLDEN RETRIEVER TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Gene: Tetratricopeptide repeat domain 8 (TTC8) on chromosome 8

Variant Detected: c.669delAp.Lys223Arg-frameshiftX15

We have scanned the DNA and the genotype of this an<mark>imal</mark> 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. LABRADOODLES

Test Reported: ICHTHYOSIS A (GOLDEN RETRIEVER)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Gene: Patatin like phospholipase domain containing 1 (PNPLA1) on Chromosome 12

Variant Detected:

Nucleotide Insertion and Nucleotide Deletionc.1445-1447delACC and c.1447insTACTACTAp.Asn482llefs9X

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.

Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275







Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: MUCOPOLYSACCHARIDOSIS VI (POODLE TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Genetic Comprehensive Report

Gene:

Variant Detected:

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.

Test Reported: NEONATAL ENCEPHALOPATHY (POODLE TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Gene: Activating transcription factor 2 (ATF2) on Chromosome 36

Variant Detected: Base Substitutionc. 152T>Gp. Met51Arg

We have scanned the DNA and the genotype of this an<mark>imal</mark> 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.

Test Reported: NEURONAL CEROID LIPOFUSCINOSIS NCL (GOLDEN RETRIEVER TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Gene: CLN5 intracellular trafficking protein (CLN5) on Chromosome 22 Variant Detected: Nucleotide Deletionc, 934_935delAGp, E312Vfs*6

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.

Owner's Name: Peter Howie **Pet Name:** RAI 03-22



Microchip Number 953010006019275





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Genetic Comprehensive Report

Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

A B R A D Test Reported : OSTEOCHONDRODYSPLASIA (MIN POODLE TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]¹

Gene: SLC13A1

Variant Detected: g.63600045_63729942del129897bp

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.

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Test Reported: OSTEOGENESIS IMPERFECTA (GOLDEN RETRIEVER TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Gene: Collagen type I alpha 1 chain (COL1A1) Chromosome 9
Variant Detected: Base Substitutionc.1276G>Cp.Gly381Ala

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.

Test Reported: PROGRESSIVE ROD CONE DEGENERATION (PRCD) - PRA

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Gene: Photoreceptor disc component (PRCD) on Chromosome 9

Variant Detected: Base Substitutionc.5 G>Ap.Cys2Tyr

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.

abracadabra

Labracadabra

Labracadabra

Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275







Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

D Test Reported : RCD4-PRA (LATE ONSET)BR

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Genetic Comprehensive Report

Gene: C2orf71 on Chromosome 17

Variant Detected: c.3149_3150insCp.Cys1051ValfsX90

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.

Test Reported: VON WILLEBRAND'S DISEASE TYPE I

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]¹

Gene: VWF

Variant Detected: c.7437G>A

We have scanned the DNA and the genotype of this an<mark>imal</mark> 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. LABRADOODLES

Test Reported: ELOCUS - (CREAM/RED/YELLOW)

Result: E/E - DOMINANT BLACK DOES NOT CARRY YELLOW/RED/WHITE 1

Gene: MC1R

Variant Detected: Em (point mutation) > E (wild type) > e (point mutation) chr5:63694334-63694334: C

2 copies of black Eor "extension". All areas of the coat colour eumalanin will not produce any "e" offspring. The Extension loci is responsible for the majority of non-agouti patterns.

DOODLES

LABRADOODLES



Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275







Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : EM (MC1R) LOCUS - MELANISTIC MASK

Genetic Comprehensive Report

Result: En/En - NO MELANISTIC MASK (En) EXTENSION ALLELE1

Gene: MC1R

Variant Detected: Base Substitution G>A

Dog tested negative for the melanistic mask allele. The dog will not have a black mask, and cannot pass a copy on to any offspring..

Test Reported: ILOCUS COLOUR INTENSITY CaC

Result: i/i- TWO COPIES OF THE MFSD12 INTENSITY ALLELE (LIKELY TO SHOW EXTREME DILUTION)

Gene: MFSD12

Variant Detected: c.151C>T (p.Arq51Cys)

This variant is associated with the dilution of phaeomelanin which is involved in the cream/white/apricot color in dogs. Degree of intensity (dilution) will vary within and between breeds.

Test Reported: BROWN (345DELPRO) DELETION

Result: Bd/Bd - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION

Gene: TYRP1

Variant Detected: Base Substitution (Point Mutation)

Does not carry the brown deletion codon. Please refer to the other brown variants to clarify potential colour

for offspring.

Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275







Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

D Test Reported: BROWN (GLNT331STOP) STOP CODON ES

Genetic Comprehensive Report

Result: BS/BS - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [STOP CODON]

Gene: TYRP1

Variant Detected: Point Mutation

Does not carry the brown stop codon. Please refer to the other brown variants to clarify potential colour for offspring.

Test Reported : BROWN (SER41CYS) INSERTION CODON

Result : Bobe - DOES NOT CARRY BROWN REDOLIVER OF CHOCOLATE [INSERTION]

Gene: TYRP1

Variant Detected: Base Substitution (Point Mutation)

Does not carry the brown insertion codon. Please refer to the other brown variants to clarify potential colour for offspring.

Test Reported: LIVER [TYRP1] (LANCASHIRE HEELER TYPE)

Result: Be/Be - DOES NOT CARRY BROWN/LIVER [TYRP1] 1

Variant Detected:





Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275







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Genetic Comprehensive Report

Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

A B R A D Test Reported : D (DILUTE) LOCUS

Result: D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL¹

Gene: MLPH

Variant Detected: Base Substitution

Full colour, no dilute gene present. The D allele modifies the Melanophillin (MLPH) gene. This animal cannot produce "dilute" offspring. Please Note: There are other dilute variants d2 (Sloughi, Chow Chow & Thai Ridgeback) and rare d3 (Italian Greyhound & Chihuahua) so this test/result may not identify dilute in these breeds.

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Test Reported: K LOCUS (DOMINANT BLACK)

Result:

KB / k^y or k^{br}- ONE CO**PY D**OMINANT BLACK (KB) and ONE COPY OF N**ON**-BLACK (k^y) dog MAY be brindled

Gene: CBD103

Variant Detected: Deletion of GGG

One copy of non black and one copy of ky or kbr is present. This KB will cover the A locus and all you will visualise is the base colour. Dog will express the alleles on the A locus but any and all phaeomelanin (red) in the coat will be brindled. This allele overides the ASIP (A) locus. The agouti phenotype may be altered for some breeds and therefore be brindle. There are three alleles at the K Locus with the following dominance hierarchy KB > Kbr > k. The first KB represents dominant black, the second allele Kbr represents brindling and may display A locus gene. Brindle in most breeds appears as black stripes on a red base. Please Note: At this stage no commercial genetic testing can distinguish brindle so breeders should rely on their pedigree or breed standard to exclude or include brindle phenotype.

Test Reported: A LOCUS (FAWN/SABLE;TRI/TAN POINTS)

Result: a^t/a^t - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]¹

Gene: ASIP

Variant Detected: Base Substitution 246 G>T(A82S); G>A (R83H): C>T (p.R96C)

Homozygous for black and tan/tricolour (no hidden colours) allele. Tri factored/white factored in dogs that have white points. No Bi Factoring (Black White & Tan). Animals are primarily black and have areas of pheomelanin (tan) which tends to be seen on the leg and stomach areas, the side of he head and spots above the eyes. Please note the colour and distribution of pheomelanin "tan" will be dependent on the breed and other colour genes. Please note that any genes on the "A" series will only be expressed if the K locus is kk, kkbr

A B R A D or kbrkbr.E S

Pet Name: RAI 03-22

LABRADOODLES

Microchip Number 953010006019275

Owner's Name: Peter Howie







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Genetic Comprehensive Report

Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

A B R A D Test Reported : PIED (BOTH SINE AND REPEAT VARIANTS) E S

Result: S/sp - CARRIER OF PIEBALD [LIMITED WHITE SPOTTING, FLASH OR PARTI]¹

Gene: MITF-M on Chromosome 20

Variant Detected:

g.chr20:21836563insSIN**ELengt**h polymorphism (repeat CAGA) chr20:218393**32-21**839366 MITF-M

Carries a single copy of the Melanocyte Inducing Transcription Factor (MITF) "sp" allele. In some breeds the dog may have limited random coat colour deletion, this can vary from a few white hairs up to half white. For somebreeds pied is any amount of white on the dog at all, for others it is a dog that is predominantly white The dog may pass on the "sp" allele to offspring. If no other white-causing genes are at play (such as Irish, white head, pseudo irish, etc.) then most will end up with white chest/toes or less white. Some S/sp appear phenotypically solid in color. It has also been shown that sp/sp does not present as piebald in many wolves and nordic dog breeds

Test Reported: MERLE

Result: m/Mc/M [171/221/267bp] - MOSAIC RESULT [MUTED MERLE]1

Gene: SILV

Variant Detected:

A B R A D 250 base pair SINE insertion, oligo(dA)-rich tails with length polymorphism. Detects and reports all the 70 0 D L E S alleles on the M Locus (Mh, M, Ma+, Ma, Mc+, Mc and m)

diletes on the M Locus (Mn, M, Ma+, Ma, Mc+, Mc and M)

Mosaicism - "Somatic Mosaicism" or "Somatic Mutation" - is the presence of two or more types of cells with different genotypes present in the body of one individual dog.

Test Reported : SPOTTING (W) LOCUS (MASTIFF TYPE)

Result: NEGATIVE - NOT SHOWING THE PHENOTYPE 1

Gene:

. A B R A D Valiant Detected :

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Labracadabra

Labracadabra

Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275







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Genetic Comprehensive Report

Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

A B R A D Test Reported : SHEDDING (MC5R) L A B R A D O O

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Result:

SHD/shd [MODERATE SHEDDING] - ONE COPY OF THE SHD (MC5R) VARIANT DETECTED [REFER TO R151W (IC) FOR LEVEL]

Gene: MC5R

Variant Detected:

The dog will (may) exhibit a moderate (average) level of shedding. Please Note: this level is also dependent on the furnishing allele. If the dog has no IC (R151W) phenotype will be low shedding.

Test Reported: COAT COMPOSITION CFA28 GENE (DOUBLE/SINGLE COAT)

Result: UDC/UDC - NO COPY OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED1

Gene: CFA28

Variant Detected:

Dog has a single coat usually associated with no undercoat. Hair length can be short or long.

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ABRADTest Reported: CURLY COAT/HAIR CURL (KRT71 R151W), ES

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Result:

POSITIVE FOR THE KRT71 R151W (Cu/Cu) VARIANT - LIKELY TO HAVE CURLY (TIGHT) HAIR PHENOTYPE

Gene: KRT71 (R151W)

Variant Detected: chr27:2539211-2539211: c.451C>T

Please note there are other additional curly coat genes/variant that will impact the curly coat phenotype.

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LABRADOODLES

LABRADOODLES



Labracadabra

Labracadabr

Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275







Scan to authenticate this Report online

Genetic Comprehensive Report

Sample with Lab ID Number 23A128273 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

A B R A D Test Reported : CURLY COAT PHENOTYPE (KRT71 P.SER422ARG FSTER)

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Result:

NEGATIVE FOR THE KRT71 (p.Ser422ArgfsTer) VARIANT - NOT SHOWING THE CURLY COAT (C2) PHENOTYPE

Gene: KRT71

Variant Detected: c.1266_1273delCCTGAAGCinsACA p. Ser422ArgfsTer

UTACAUAUTA LAUTACAUAUT? LABRAD Test Reported: IMPROPER COAT (RSP 02) RADOOD LES

Result: IC2/IC2 - NO COPY THE IMPROPER COAT RSPO2 (DELETION) VARIANT DETECTED1

Gene: RSPO2

Variant Detected: 167 bp insertion in 3'UTR region

Please Note: This is one of the 3 IC variants that are associated with IC. There may be other causes of this condition in dogs and a normal result does not exclude a different mutation in this gene or any other gene that may result in a similar genetic trait.

Dracadadra Labracadadr L A B R A D Test Reported: BODY SIZE IGSF1 "BULKY GENE"D O O D L E S

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Result:

HOMOZYGOUS FOR INSULIN LIKE GROWTH FACTOR (IGF1R) - ASSOCIATED WITH AN INCREASE of BODY (BULKY) SIZE

Gene: IGSF1

Variant Detected: chrX.g.102369488-102369489insAAC, p.Asp376_Glu377insAsn, Chromosome X

Please Note: This variant is found on the X-Chromosome and will present as 2 copies in females and one copy in males. The IGF1R allele in an ancestral allele found in larger-sized breeds.

A B R A D O O D L E S L A B R A

LABRADOODLES



Labracadabra

Labracadabra Labracadabra

Owner's Name: Peter Howie

Pet Name: RAI 03-22

Microchip Number 953010006019275



Glossary of Genetic Terms (Results)



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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.

A B R NORMAL BY BEDIGREE

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.

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Glossary of Genetic Terms (Results)



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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.

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TRAIT (PHENOTYPE)

A feature that an animal is born with (a genetically determined characteristic). Traits are a visual phenotype that range from colour to hair length, 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.

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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 clarify these 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 by Establishment
 - 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.
- A B R The range of hereditary diseases continues to increase and we see some that are relatively benign and on 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.

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