

Coat Color and Trait Certificate

Call Name: Jetta
Registered Name: Dakota's Redeye Jet Setter
Breed: Poodle
Sex: Female
DOB: May 2021

Laboratory #: 247305
Registration #: PR24150202
Certificate Date: Dec. 16, 2021

This canine's DNA showed the following genotype(s):

Coat Color/Trait Test	Gene	Genotype	Interpretation
A Locus (Agouti)	<i>ASIP</i>	a^w/a^t	Wolf sable/gray (carries tricolor/black and tan)
Chondrodysplasia (CDPA)	<i>CFA18 FGF4</i>	cd/cd	No Leg Shortening Associated with CDPA
E Locus (Apricot/Yellow/Red) - e (Common Variant Found in Many Breeds)	<i>MC1R</i>	e/e	Yellow/red
E ^m Locus (Melanistic Mask)	<i>MC1R</i>	N/N	No melanistic mask
I Locus (Intensity)	<i>MFSD12</i>	I/I	Normal intensity
K Locus (Dominant Black)	<i>CBD103</i>	k^y/k^y	Agouti expression allowed
S Locus (White Spotting, Parti, or Piebald)	<i>MITF</i>	S/S ^P	Limited white spotting, flash, parti, or piebald (carrier)

Interpretation:

This dog carries one copy of a^w and one copy of a^t which results in a "wolf" sable/gray coat color. However, this dog's coat color is also dependent on the E, K, and B genes. The "wolf" sable/gray coat color is only expressed if the dog is also E/E or E/e at the E locus and k^y/k^y at the K locus which allows for agouti gene expression. This dog will pass on a^w to 50% of its offspring and a^t to 50% of its offspring.

Two genetic mutations are associated with shortened legs in dogs. Both mutations consist of copied sections (duplication) of the canine *FGF4* gene (called an *FGF4*-retrotransposon) that have been inserted into two aberrant locations in the genome; one in chromosome 12 (*CFA12 FGF4*; associated with CDDY and IVDD risk) and one in chromosome 18 (*CFA18 FGF4*; associated with chondrodysplasia [CDPA], but not associated with IVDD). Appropriate breeding decisions regarding dogs which have inherited the *CFA12 FGF4* mutation (WT/M or M/M) need to address both the potential loss of genetic diversity in a population which would occur if dogs with this mutation were prohibited from breeding as well as the loss of the short-legged appearance that is a defining physical characteristic for some breeds. In breeds which inherit both mutations, breeders may use genetic testing results to selectively breed for the CDPA (*CFA18 FGF4*) mutation while breeding away from the CDDY and IVDD risk (*CFA12 FGF4*) mutation to reduce IVDD risk and retain the short-legged appearance. However, the frequency of each mutation varies between breeds and, in some cases, may not be conducive to such a breeding strategy. For example, breeds with extreme limb shortening (e.g. Basset hound, Dachshund, Corgi) typically develop their appearance due to inheritance of both the *CFA12 FGF4* and *CFA18 FGF4* mutations. In addition, depending on the breed, offspring born without either the *CFA12 FGF4* or *CFA18 FGF4* mutations may display longer limbs than cohorts and, therefore, not meet specific breed standards.

This dog carries two copies of the **cd** allele which does not result in leg shortening. However, the actual leg length of the dog is a result of a combination of factors including the mutation associated with CDDY and IVDD risk (*CFA12 FGF4*) as well as variants in other genes. This dog will pass one copy of **cd** to 100% of its offspring.

This dog carries two copies of **e** which inhibits production of black pigment. The coat color of this dog will be yellow/red (including shades of white, cream, yellow, apricot or red). This dog will pass **e** on to 100% of its offspring.

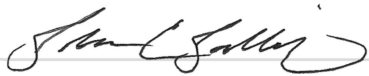
This dog carries two copies of **N** which does not result in a melanistic mask on the muzzle of the dog. This dog will pass on **N** to 100% of its offspring.

This dog does not carry a copy of the *i* mutation and has an *I* locus genotype of **I/I** which does not result in the lightening of the light, phaeomelanin pigments that produce the dog's coat color in an *e/e* dog. This dog will pass one copy of **I** to 100% of its offspring and cannot produce *i/i* dogs.

This dog carries two copies of **k^y** which allows for the expression of the agouti gene (*A* locus) which can result in a variety of coat colors including sable/fawn, tricolor, tan points, black or brown. However, this dog's coat color is dependent on its genotypes at the *E*, *A* and *B* genes. This dog will pass on **k^y** to 100% of its offspring.

This dog carries one copy of **S** and one copy of **s^P** which results in limited white spotting, flash, parti, or piebald coat color due to the co-dominance of **S** and **s^P**. This dog will pass on one copy of **S** to 50% of its offspring and one copy of **s^P** to 50% of its offspring.

Paw Print Genetics® has genetic counseling available to you at no additional charge to answer any questions about these test results, their implications and potential outcomes in breeding this dog.



Blake C Ballif, PhD
Laboratory & Scientific Director



Casey R Carl, DVM
Associate Medical Director

Normal results do not exclude inherited mutations not tested in these or other genes that may cause medical problems or may be passed on to offspring. These tests were developed and their performance determined by Paw Print Genetics®. This laboratory has established and verified the tests' accuracy and precision. Because all tests performed are DNA-based, rare genomic variations may interfere with the performance of some tests producing false results. If you think these results are in error, please contact the laboratory immediately for further evaluation. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results.

Laboratory Report

Laboratory #:	247305	Call Name:	Jetta
Order #:	112397	Registered Name:	Dakota's Redeye Jet Setter
Ordered By:	Brittany Venekamp	Breed:	Poodle
Ordered:	July 5, 2021	Sex:	Female
Received:	Dec. 6, 2021	DOB:	May 2021
Reported:	Dec. 16, 2021	Registration #:	PR24150202

Results:

Disease	Gene	Genotype	Interpretation
Chondrodystrophy with Intervertebral Disc Disease Risk Factor (CDDY with IVDD)	<i>CFA12 FGF4</i>	WT/WT	Normal (Clear) - No CDDY or Increased IVDD Risk
Degenerative Myelopathy	<i>SOD1</i>	WT/WT	Normal (clear)
GM2 Gangliosidosis (Poodle Type)	<i>HEXB</i>	WT/WT	Normal (clear)
Hereditary Cataracts	<i>HSF4</i>	WT/WT	Normal (clear)
Multidrug Resistance 1	<i>ABCB1</i>	WT/WT	Normal (clear)
Neonatal Encephalopathy with Seizures	<i>ATF2</i>	WT/WT	Normal (clear)
Osteochondrodysplasia	<i>SLC13A1</i>	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	<i>PRCD</i>	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Rod-Cone Dysplasia 4	<i>C2orf71</i>	WT/WT	Normal (clear)
Von Willebrand Disease I	<i>VWF</i>	WT/WT	Normal (clear)


WT, wild type (normal); M, mutant; Y, Y chromosome (male)

Interpretation:

Molecular genetic analysis was performed for 10 specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in 10 mutations tested. Thus, this dog is not at an increased risk for the diseases associated with these 10 mutations.

Recommendations:

No mutations were identified. Thus, this dog is not at an increased risk for the diseases caused by or associated with the mutations tested. Because this dog is "clear" of these mutations, this dog will only pass the normal genes on to its offspring. Normal results do not exclude inherited mutations not tested in these or other genes that may cause medical problems or may be passed on to offspring. Paw Print Genetics® has genetic counseling available to you at no additional charge to answer any questions about these test results, their implications and potential outcomes in breeding this dog.



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Associate Medical Director

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Orthopedic Foundation for Animals
Hip Dysplasia Evaluation Report



A Not-for-Profit
Organization

DAKOTA'S REDEYE JET SETTER
registered name

POODLE
breed

film/test/lab #

985141005564949
tattoo/microchip/DNA profile

2415602
application number

12/07/2022
date of report

PR24150202
registration no.

F
sex

05/24/2021
date of birth

18
age at evaluation in months

Owner

BRITTANY VENEKAMP
48426 218TH ST
ELKTON SD 57026

Veterinarian

ALL CITY PET CARE WEST
3400 S HOLBROOK AVE
SIOUX FALLS SD 57106

Preliminary Hip Dysplasia Evaluation Report

EXCELLENT HIP JOINT CONFORMATION

superior hip joint conformation as compared with other individuals of the same breed and age

BORDERLINE HIP JOINT CONFORMATION

marginal hip joint conformation of indeterminate status with respect to hip dysplasia at this time -- Repeat study in six months

✓ **GOOD HIP JOINT CONFORMATION**

well formed hip joint conformation as compared with other individuals of the same breed and age

MILD HIP DYSPLASIA

radiographic evidence of minor dysplastic changes of the hip joints

FAIR HIP JOINT CONFORMATION

minor irregularities of the hip joint conformation as compared with other individuals of the same breed and age

MODERATE HIP DYSPLASIA

well defined radiographic evidence of dysplastic changes of the hip joints

SEVERE HIP DYSPLASIA

radiographic evidence of marked dysplastic changes of the hip joints

RADIOGRAPHIC FINDINGS

- ☐ subluxation
- ☐ remodeling of femoral head/neck
- ☐ osteoarthritis/degenerative joint disease
- ☐ shallow acetabula
- ☐ acetabular rim/edge change

- ☐ unilateral pathology ☐ left ☐ right
- ☐ transitional vertebra
- ☐ spondylosis
- ☐ panosteitis

G.G. KELLER, DVM, MS, DACVR
CHIEF OF VETERINARY SERVICES

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

DAKOTA'S REDEYE JET SETTER
registered name

POODLE
sex/breed

film/test/lab #

985141005564949
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2415602
application number

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RESULTS:

The results of the examination submitted to OFA indicate that no evidence of patellar luxation was recognized.

PR24150202
registration no.

F

05/24/2021
date of birth

18
age at evaluation in months



A Not-For-Profit Organization

PO-PA9551/18F/P-VPI
O.F.A. NUMBER

*This number issued with the right to correct or
revoke by the Orthopedic Foundation for Animals.*

owner
BRITTANY VENEKAMP
48426 218TH ST
ELKTON SD 57026

OFA eCert



Verify QR scan

NORMAL - PRACTITIONER

G.G. Keller, D.V.M.

G.G. KELLER, D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

www.ofa.org

This electronic OFA certificate was generated on: 12/07/2022

This certification can be verified on the OFA website by entering the dog's registration number into the orange search box located at the top of the page or by scanning the QR code above.

If there are any errors on this certificate, please email **CORRECTIONS@OFFA.ORG** to request a correction.

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Columbia, MO 65201-3806

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Fax number: 573-875-5073

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

DAKOTA'S REDEYE JET SETTER
registered name

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RESULTS:

Normal cardiovascular examination via auscultation - No evidence of congenital or acquired heart disease was noted. Since acquired heart disease may develop later, these evaluation results remain valid for one year, and annual examinations are recommended to continue to monitor cardiac health.

PR24150202
registration no.

F

05/24/2021
date of birth

18
age at evaluation in months



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PO-BCA3435/18F/P-VPI
O.F.A. NUMBER

*This number issued with the right to correct or
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NORMAL/CLEAR - PRACTITIONER

owner
BRITTANY VENEKAMP
48426 218TH ST
ELKTON SD 57026

OFA eCert



Verify QR scan

G.G.KELLER, D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

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