

Genetic Testing Report

Boo
Submitted By

 Brittany Venekamp
 Dakota Prairie Pups
 48426 218th St
 Elkton, SD 57026
 USA

Owned By

Brittany Venekamp

Subject Dog

 Dog Name: **Boo** ****Bluey, renamed keeper puppy.**

 Lab Reference #: **115255**

 Breed: **Poodle**

 Phenotype: **Black Phantom**

 Sex: **Male**

Birth:

Sire

 Sire: Dakota's Parti Boy King Lovie
 Breed: Poodle
 Phenotype: Parti Phantom

Dam

 Dam: Dakota's Phantom Stella Rosa
 Breed: Poodle
 Phenotype: Black Phantom

Disorder Results (2 of 5)

CDPA	N/N	Clear: Dog is negative for the CDPA mutation.
CDDY	N/N	Clear: Dog is negative for the mutation associated with CDDY.

Color Results (3 of 5)

A-Locus	at/at	Dog has two copies of the gene causing tan points.
B-Locus	B/b	Dog carries one copy of the gene responsible for chocolate/brown coloration
E-Locus	EM/e	Dog carries one copy of cream/yellow and has one copy of mask.
*K-Locus	ky/ky	Dog allows agouti expression
*S-Locus	s/sp	Dog has limited white spotting, flash, parti or piebald (carrier)
*D-Locus	D/D	Non dilute

*Breeder comments with additional color/health info, Bluey was initially "Boo" with our Spooktacular litter when we did testing through Animal Genetics. Parents Louie & Stella genetic/color testing attached at end of Bluey's health and color packet and back the K, S, & D locus interpretation.

*Bluey is clear on poodle panel, including CDPA/CDDY

PennHIP Report

Referring Veterinarian: Dr Matt Stork
Email: petcarewest@nvanet.com

Clinic Name: All City Pet Care West
Clinic Address: 3400 S. Holbrook Ave
Sioux Falls, SD 57106
Phone: (605) 361-3537
Fax: (605) 361-1761

Patient Information

Client: Venekamp, Brittany
Patient Name: Bluey
Reg. Name: Dakota's Phantom Little Boy Blue
PennHIP Num: 182285
Species: Canine
Date of Birth: 28 Oct 2021
Sex: Male
Date of Study: 02 Dec 2022
Date of Report: 07 Dec 2022

Tattoo Num:
Patient ID: 49585
Registration Num: PR24761109
Microchip Num: 985141005565312
Breed: STANDARD POODLE
Age: 14 months
Weight: 26 lbs/11.8 kgs
Date Submitted: 02 Dec 2022

Findings

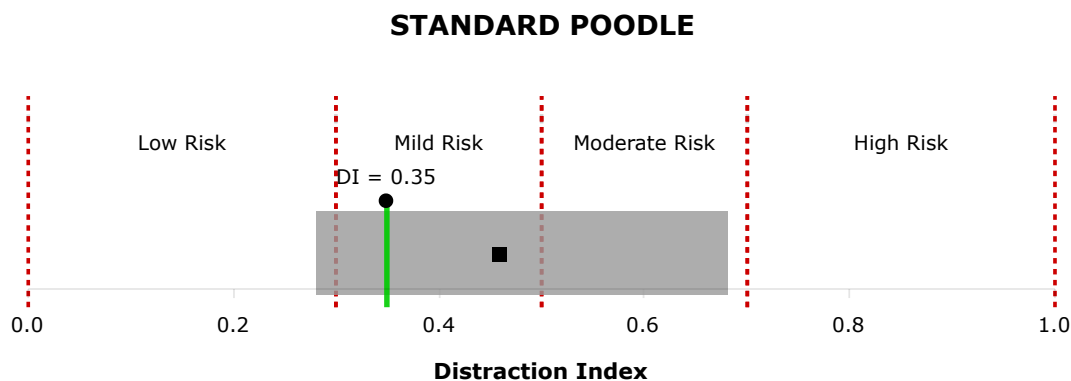
Distraction Index (DI): Right DI = 0.34, Left DI = 0.35.
Osteoarthritis (OA): **No radiographic evidence of OA for either hip.**
Cavitation/Other Findings: No cavitation present.

Interpretation

Distraction Index (DI): The laxity ranking is based on the hip with the greater laxity (larger DI). In this case the DI used is 0.35.

OA Risk Category: The DI is between 0.31 and 0.49. This patient is at mild risk for hip OA.

Distraction Index Chart:



BREED STATISTICS: This interpretation is based on a cross-section of 5943 canine patients of the STANDARD POODLE breed in the AIS PennHIP database. The gray strip represents the central 90% range of DIs (0.28 - 0.68) for the breed. The breed average DI is 0.46 (solid square). The patient DI is the solid circle (0.35).

SUMMARY: The degree of laxity (DI = 0.35) falls within the central 90% range of DIs for the breed. This amount of hip laxity places the hip at a mild risk to develop hip OA. **No radiographic evidence of OA for either hip.**

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

DAKOTA'S PHANTOM LITTLE BOY BLUE
registered name

POODLE
sex/breed

film/test/lab #

985141005565312
tattoo/microchip/DNA profile

2415512
application number

12/07/2022
date of report

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.

PR24761109
registration no.

M

10/28/2021
date of birth

13
age at evaluation in months



A Not-For-Profit Organization

PO-BCA3434/13M/P-PI
O.F.A. NUMBER

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

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

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.

Orthopedic Foundation for Animals, Inc.
2300 E. Nifong Blvd.
Columbia, MO 65201-3806

OFA website: www.ofa.org
E-mail address: ofa@offa.org
Phone number: 573-442-0418
Fax number: 573-875-5073

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

DAKOTA'S PHANTOM LITTLE BOY BLUE
registered name

POODLE
sex/breed

film/test/lab #

985141005565312
tattoo/microchip/DNA profile

2415512
application number

12/07/2022
date of report

RESULTS:

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

owner
BRITTANY VENEKAMP
48426 218TH ST
ELKTON SD 57026

OFA eCert



Verify QR scan

PR24761109
registration no.

M

10/28/2021
date of birth

13
age at evaluation in months



A Not-For-Profit Organization

PO-PA9550/13M/P-PI
O.F.A. NUMBER

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

NORMAL - PRACTITIONER

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

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E-mail address: ofa@offa.org
Phone number: 573-442-0418
Fax number: 573-875-5073

Canine Genetic Health Certificate™

Call Name:	Louie	Laboratory #:	148177
Registered Name:	Dakota's Parti Boy King Louie	Registration #:	PR21796503
Breed:	Standard Poodle	Microchip #:	956000011882055
Sex:	Male	Certificate Date:	Oct. 22, 2020
DOB:	June 2019		


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

Disease	Gene	Genotype	Interpretation
Chondrodysplasia (CDPA)	<i>CFA18</i> <i>FGF4</i>	cd/cd	No Leg Shortening Associated with CDPA
Chondrodystrophy with Intervertebral Disc Disease Risk Factor (CDDY with IVDD)	<i>CFA12</i> <i>FGF4</i>	WT/M	CDDY Affected with Shortened Legs and Increased IVDD Risk
Degenerative Myelopathy	<i>SOD1</i>	WT/WT	Normal (clear)
GM2 Gangliosidosis (Poodle Type)	<i>HEXB</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)



Blake C Ballif, PhD
Laboratory & Scientific Director



Robert D. Westra, MS, DVM
Assistant Medical Director

Paw Print Genetics® performed the tests listed on this dog. See the Laboratory Report for interpretation and recommendations based on these findings. The genes/diseases reported here were selected by the client. 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. Genetic counseling is available at Paw Print Genetics.

Coat Color and Trait Certificate

Call Name:	Louie	Laboratory #:	148177
Registered Name:	Dakota's Parti Boy King Louie	Registration #:	PR21796503
Breed:	Standard Poodle	Microchip #:	956000011882055
Sex:	Male	Certificate Date:	May 14, 2020
DOB:	June 2019		

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

Coat Color/Trait Test	Gene	Genotype	Interpretation
A Locus (Agouti)	<i>ASIP</i>	a^t/a^t	Tricolor, black and tan
B Locus (Brown)	<i>TYRP1</i>	B/b	Black coat, nose and foot pads (carries brown)
D Locus (Dilute)	<i>MLPH</i>	D/D	Non dilute
E Locus (Yellow/Red)	<i>MC1R</i>	E/e	Black (carries yellow/red)
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^p/s^p	Nearly solid white, parti, or piebald

Interpretation:

This dog carries two copies of **a^t** which results in tan points and can also present as a black and tan or tricolor coat color. However, this dog's coat color is also dependent on the E, K, and B genes. The tan point 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. This dog will pass on **a^t** to 100% of its offspring.

This dog carries one copy of **B** and at least one copy of **b** at the b^c , b^d or b^s locus making the overall B locus genotype of this dog **B/b**. The overall B locus genotype for a dog is determined by the combination of the genotypes at the b^c , b^d , and b^s loci. The b^c , b^d , and b^s variants confer brown coat, nose, and foot pads when at least one of these DNA changes is present on both genes of the dog at the B locus. If the dog has one or no copies of **b** then the dog will have a black coat, nose, and foot pads. However, this dog's coat color is also dependent on the E, K, and A genes. This dog will pass on **B** to 50% of its offspring and **b** to 50% of its offspring.

This dog carries two copies of **D** which does not result in the "dilution" or lightening of the black and yellow/red pigments that produce the dog's coat color. The base coat color of this dog will be primarily determined by the E, K, A, and B genes. This dog will pass on **D** to 100% of its offspring.

This dog carries one copy of **E** and one copy of **e** which allows for the production of black pigment. However, this dog's coat color is also dependent on the K, A, and B genes. This dog will pass **E** on to 50% of its offspring and **e** to 50% of its offspring, which can produce a yellow/red coat (including shades of white, cream, yellow, apricot or red) if inherited with another copy of **e**.

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 two copies of **s^P** which results in a nearly solid white, parti, or piebald coat color. This dog will pass on one copy of **s^P** to 100% 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.



Christina J Ramirez, PhD, DVM, DACVP
Medical Director



Robert D. Westra, MS, DVM
Assistant Medical Director

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Canine Genetic Health Certificate™

Call Name:	Stella	Laboratory #:	148175
Registered Name:	Dakota's Phantom Stella Rosa	Registration #:	PR21096407
Breed:	Standard Poodle	Microchip #:	956000005825743
Sex:	Female	Certificate Date:	Oct. 22, 2020
DOB:	Sept. 2018		

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

Disease	Gene	Genotype	Interpretation
Chondrodysplasia (CDPA)	<i>CFA18</i> <i>FGF4</i>	cd/cd	No Leg Shortening Associated with CDPA
Chondrodystrophy with Intervertebral Disc Disease Risk Factor (CDDY with IVDD)	<i>CFA12</i> <i>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)
Osteochondrodysplasia	<i>SLC13A1</i>	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	<i>PRCD</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)



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Coat Color and Trait Certificate

Call Name:	Stella	Laboratory #:	148175
Registered Name:	Dakota's Phantom Stella Rosa	Registration #:	PR21096407
Breed:	Standard Poodle	Microchip #:	956000005825743
Sex:	Female	Certificate Date:	May 14, 2020
DOB:	Sept. 2018		

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

Coat Color/Trait Test	Gene	Genotype	Interpretation
A Locus (Agouti)	<i>ASIP</i>	a^t/a	Tricolor, black and tan (carries bicolor/solid)
B Locus (Brown)	<i>TYRP1</i>	B/b	Black coat, nose and foot pads (carries brown)
D Locus (Dilute)	<i>MLPH</i>	D/D	Non dilute
E Locus (Yellow/Red)	<i>MC1R</i>	E/E	Black
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^t and one copy of a which results in tan points and can also present as a black and tan or tricolor coat color. However, this dog's coat color is also dependent on the E, K, and B genes. The tan point 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. This dog will pass on a^t to 50% of its offspring and a to 50% of its offspring.

This dog carries one copy of **B** and at least one copy of **b** at the b^c , b^d or b^s locus making the overall B locus genotype of this dog **B/b**. The overall B locus genotype for a dog is determined by the combination of the genotypes at the b^c , b^d , and b^s loci. The b^c , b^d , and b^s variants confer brown coat, nose, and foot pads when at least one of these DNA changes is present on both genes of the dog at the B locus. If the dog has one or no copies of **b** then the dog will have a black coat, nose, and foot pads. However, this dog's coat color is also dependent on the E, K, and A genes. This dog will pass on **B** to 50% of its offspring and **b** to 50% of its offspring.

This dog carries two copies of **D** which does not result in the "dilution" or lightening of the black and yellow/red pigments that produce the dog's coat color. The base coat color of this dog will be primarily determined by the E, K, A, and B genes. This dog will pass on **D** to 100% of its offspring.

This dog carries two copies of **E** which allows for the production of black pigment. However, this dog's coat color is also dependent on the K, A, and B genes. This dog will pass on **E** to 100% of its offspring.

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.

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