



AMERICAN  
KENNEL CLUB®

8051 Arco Corporate Drive  
Suite 100  
Raleigh, NC 27617-3390  
www.akc.org

November 23, 2021

DEAR KEVIN BONTRAGER,

Congratulations on your new Poodle and welcome to the world of purebred dogs. Your AKC registration dollars support numerous AKC efforts to benefit dogs and dog owners. By registering your dog with the AKC, you supported valuable programs such as Pet Disaster Relief, the AKC Canine Health Foundation, the AKC Kennel Inspection Program, public education, canine legislation, and DNA parentage verification.

AKC registration provides wonderful opportunities for every purebred dog lover. The AKC Canine Good Citizen® program is an outstanding way to train your dog in basic obedience, valuable for every family. In addition, many dog owners enjoy the thrill of participating in AKC activities, shows and trials throughout the country. I invite you and your dog to get involved with the AKC!

Your registration also includes exclusive health benefits to help keep your new dog safe and healthy. Your dog is eligible for 30 days of pet health insurance included with your registration at no additional cost. This coverage reimburses for veterinary expenses due to unexpected accidents and illnesses. It also includes access to a 24/7 Vet Helpline. Activation of coverage is required in most states. For more information or to activate your policy, visit [www.akcpetinsurance.com/certificate](http://www.akcpetinsurance.com/certificate) or call 866-725-2747.†

Please note, if you ordered multiple items at the time of registration, they will be mailed separately and should arrive shortly. These include the AKC Certified Pedigree, the Dog Care and Training video, *Family Dog* magazine, and the AKC collar tag. If you did not order a Pedigree, you still have the opportunity to do so. An order form is provided on the back of this letter.

All of us want to be responsible dog owners. To help, the AKC offers a wealth of information at [www.akc.org](http://www.akc.org). Our site lists national and local dog clubs and AKC Canine Good Citizen® evaluators. Please visit us online and on Facebook and Twitter. If we can be of further service to you, please contact us by phone at 919-233-9767 or by email at [info@akc.org](mailto:info@akc.org).

Sincerely,

Dennis B. Sprung  
President and Chief Executive Officer

† Insurance is underwritten and issued by Independence American Insurance Company with offices at 485 Madison Ave, NY, NY 10022, and in WA by American Pet Insurance Company, 6100 4th Ave. S., Seattle, WA 98108. Insurance plans are offered and administered by PetPartners, Inc., a licensed agency. "American Kennel Club," "AKC" and the AKC logo are trademarks of The American Kennel Club, Inc.; used under license by PetPartners. "AKC Pet Insurance" is the name used by PetPartners to offer and administer insurance plans and is neither an American Kennel Club business nor an insurance company. American Kennel Club does not offer, administer, solicit, market or sell any insurance plans. For complete details refer to [www.akcpetinsurance.com/sample-policies](http://www.akcpetinsurance.com/sample-policies). Activation required for initial 30 days of coverage to take effect. Eligibility restrictions apply. For more information, visit [www.akcpetinsurance.com/akc-offer](http://www.akcpetinsurance.com/akc-offer) or call 866-725-2747.

Please separate below and keep for your records.

AMERICAN KENNEL CLUB

NAME  
PAWSATIVE MEMORIES MARSHALL

NUMBER  
PR22404405

BREED  
POODLE

SEX  
MALE

COLOR  
RED

DATE OF BIRTH  
JANUARY 10, 2020

SIRE  
PINE CREEKS RED BRODY  
PR19533701 07-18 (OFA31G OFEL31 AKC DNA #V847558)

DAM  
BROOKS LITTLE ADDISON  
PR20983504 06-20

BREEDER  
DEVON TROYER

OWNER

KEVIN BONTRAGER  
9149 N STATE ROAD 19  
ETNA GREEN IN 46524-9447



AMERICAN  
KENNEL CLUB®

CERTIFICATE ISSUED  
NOVEMBER 23, 2021

*This certificate invalidates all previous certificates issued.*

If a date appears after the name and number of the sire and dam, it indicates the issue of the Stud Book Register in which the sire or dam is published.

**For Transfer Instructions, see back of Certificate.**

*This Certificate issued with the right to correct or revoke by the American Kennel Club.*



## Canine Genetic Health Certificate™

**Call Name:** Marshall  
**Registered Name:** -  
**Breed:** Toy Poodle  
**Sex:** Male  
**DOB:** Jan. 2020

**Laboratory #:** 259877  
**Registration #:** -  
**Certificate Date:** Oct. 19, 2021

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

Disease	Gene	Genotype	Interpretation
Degenerative Myelopathy	<i>SOD1</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)

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

**Blake C Ballif, PhD**  
Laboratory & Scientific Director

**Casey R Carl, DVM**  
Associate 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.



## Laboratory Report

<b>Laboratory #:</b>	259877	<b>Call Name:</b>	Marshall
<b>Order #:</b>	118154	<b>Registered Name:</b>	-
<b>Ordered By:</b>	Kevin Bontrager	<b>Breed:</b>	Toy Poodle
<b>Ordered:</b>	Sept. 18, 2021	<b>Sex:</b>	Male
<b>Received:</b>	Oct. 12, 2021	<b>DOB:</b>	Jan. 2020
<b>Reported:</b>	Oct. 19, 2021	<b>Registration #:</b>	-

### Results:

Disease	Gene	Genotype	Interpretation
Degenerative Myelopathy	<i>SOD1</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)

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

### Interpretation:

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



**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.

## Coat Color and Trait Certificate

<b>Call Name:</b>	Marshall	<b>Laboratory #:</b>	259877
<b>Registered Name:</b>	-	<b>Registration #:</b>	-
<b>Breed:</b>	Toy Poodle	<b>Certificate Date:</b>	Oct. 19, 2021
<b>Sex:</b>	Male		
<b>DOB:</b>	Jan. 2020		

**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
D Locus (Dilute)	<i>MLPH</i>	D/D	Non-dilute (does not carry dilute)
E Locus (Apricot/Yellow/Red) - e (Common Variant Found in Many Breeds)	<i>MC1R</i>	e/e	Yellow/red
K Locus (Dominant Black)	<i>CBD103</i>	$K^B/k^Y$	No agouti expression allowed (carrier)

### 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 does not carry any copies of the  $d^1$  or  $d^2$  mutations and has a D locus genotype of **D/D** which does not result in the "dilution" or lightening of the pigments that produce the dog's coat color. This dog will pass one copy of **D** to 100% of its offspring and cannot produce d/d dogs.

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 one copy of  $K^B$  and one copy of  $k^Y$  which prevents expression of the agouti gene (A locus) and allows for solid eumelanin (black pigment) production in pigmented areas of the dog. However, this dog's coat color is also dependent on its genotypes at the E and B genes. This dog will pass on  $K^B$  to 50% of its offspring and  $k^Y$  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.