

# AMERICAN KENNEL CLUB

NAME

PINEDRIVE'S JOLLY WILLOW

NUMBER

**WS86560503**

BREED

BERNESE MOUNTAIN DOG

SEX

FEMALE

COLOR

BLACK RUST & WHITE

DATE OF BIRTH

APRIL 27, 2025

SIRE

JOLLY JUMPER FROM BALIHARA RANCH

WS82352902 03/25 OFA24G EYE24 AKC DNA V10104808 Slovak Republic

DAM

PINE DRIVE'S NIKKI

WS75935805 03/25 OFA29F OFEL29 EYE38

BREEDER

DANIEL TROYER

OWNER

DANIEL TROYER



**AMERICAN  
KENNEL CLUB®**

*\*Alternate colors or markings may be disqualifying  
for Conformation Dog Shows and may not be  
approved by the breed's AKC Parent Club. For more  
information go to: [www.akccolors.org](http://www.akccolors.org).*

*This Certificate is issued with the right to correct or  
revoke by the American Kennel Club and invalidates  
all previous certificates.*

**REGISTRATION CERTIFICATE**



## AKC DNA Profile

DNA Profile#: **V10226783**

Sex: **Female**

Date of Birth: **04/27/2025**

ID #: **900255001206508**

Date of Analysis: **06/15/2026**

AKC #: **WS86560503**

Breed: **Bernese Mountain Dog**

AKC Name: **Pinedrive's Jolly Willow**

Owner(s): **Daniel Troyer**

|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AC     | GG     | AG     | GG     | GG     | AG     | AA     | AA     | AA     | AA     | AG     | AG     | AG     | AG     | AG     | GG     | AA     | CC     | AA     | CC     | GG     | AG     | AA     | AG     | AG     |
| AKC001 | AKC002 | AKC003 | AKC004 | AKC005 | AKC006 | AKC007 | AKC008 | AKC009 | AKC010 | AKC011 | AKC012 | AKC013 | AKC014 | AKC015 | AKC016 | AKC017 | AKC018 | AKC019 | AKC020 | AKC021 | AKC022 | AKC023 | AKC024 | AKC025 |
| AA     | GG     | AG     | GG     | AC     | GG     | AG     | GG     | AA     | AG     | AG     | AG     | AA     | GG     | AG     | AG     | AA     | AG     | AA     | GG     | AA     | AG     | AA     | AG     | AG     |
| AKC026 | AKC027 | AKC028 | AKC029 | AKC030 | AKC031 | AKC032 | AKC033 | AKC034 | AKC035 | AKC036 | AKC037 | AKC038 | AKC039 | AKC040 | AKC041 | AKC042 | AKC043 | AKC044 | AKC045 | AKC046 | AKC047 | AKC048 | AKC049 | AKC050 |
| GG     | GG     | AA     | GG     | GG     | AG     | AA     | AA     | GG     |        | GG     | GG     | AC     | AA     | AG     | AA     | CG     | AG     | AG     | AG     | AG     | AG     | AG     | AG     | AG     |
| AKC051 | AKC052 | AKC053 | AKC054 | AKC055 | AKC056 | AKC057 | AKC058 | AKC059 | AKC060 | AKC061 | AKC062 | AKC063 | AKC064 | AKC065 | AKC066 | AKC067 | AKC068 | AKC069 | AKC070 | AKC071 | AKC072 | AKC073 | AKC074 | AKC075 |
| AA     | AA     | AA     | AA     | GG     | AA     | GG     | AA     | CC     | GG     | AC     | CG     | AG     | CC     | GG     | AG     | CC     | GG     | GG     | AG     | AC     | AG     | CC     | AA     | GG     |
| AKC076 | AKC077 | AKC078 | AKC079 | AKC080 | AKC081 | AKC082 | AKC083 | AKC084 | AKC085 | AKC086 | AKC087 | AKC088 | AKC089 | AKC090 | AKC091 | AKC092 | AKC093 | AKC094 | AKC095 | AKC096 | AKC097 | AKC098 | AKC099 | AKC100 |
| GG     | GG     | AT     | AG     | GG     | AA     | GG     | AG     | CC     | GG     | AG     | CC     | AA     | AA     | AA     | CC     | AG     | AA     | AG     | AG     | AA     | CC     | AA     | GG     | AT     |
| AKC101 | AKC102 | AKC103 | AKC104 | AKC105 | AKC106 | AKC107 | AKC108 | AKC109 | AKC110 | AKC111 | AKC112 | AKC113 | AKC114 | AKC115 | AKC116 | AKC117 | AKC118 | AKC119 | AKC120 | AKC121 | AKC122 | AKC123 | AKC124 | AKC125 |
| AA     | GG     | AG     | AG     | GG     | AA     | GG     | GG     | GG     | GG     | AA     | AG     | CC     | CC     | AG     | AG     | GG     | GG     | AC     | AA     | AA     | AG     | AC     | CC     | GG     |
| AKC126 | AKC127 | AKC128 | AKC129 | AKC130 | AKC131 | AKC132 | AKC133 | AKC134 | AKC135 | AKC136 | AKC137 | AKC138 | AKC139 | AKC140 | AKC141 | AKC142 | AKC143 | AKC144 | AKC145 | AKC146 | AKC147 | AKC148 | AKC149 | AKC150 |
| AA     | AG     | CC     | GG     | AA     | AA     | AC     | GG     | AG     | AA     | AG     | CC     | GG     | AA     | AA     | GG     | GG     | GG     | GG     | AA     | GG     | AT     | CC     | GG     | GG     |
| AKC151 | AKC152 | AKC153 | AKC154 | AKC155 | AKC156 | AKC157 | AKC158 | AKC159 | AKC160 | AKC161 | AKC162 | AKC163 | AKC164 | AKC165 | AKC166 | AKC167 | AKC168 | AKC169 | AKC170 | AKC171 | AKC172 | AKC173 | AKC174 | AKC175 |
| AG     | GG     | AG     | AC     | AG     | AA     | AG     | GG     | GG     | AG     | GG     | AA     | CC     | GG     | GG     | GG     | AA     | GG     | AG     | AA     | CG     | AT     | GG     | AG     | AC     |
| AKC176 | AKC177 | AKC178 | AKC179 | AKC180 | AKC181 | AKC182 | AKC183 | AKC184 | AKC185 | AKC186 | AKC187 | AKC188 | AKC189 | AKC190 | AKC191 | AKC192 | AKC193 | AKC194 | AKC195 | AKC196 | AKC197 | AKC198 | AKC199 | AKC200 |

XX

AKC201

Dr. Jerry Klein, DVM, Chief Veterinary Officer  
American Kennel Club

Dr. Jiansheng Qiu, Directory of Quality  
Neogen Corporation

# ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

PINEDRIVE'S JOLLY WILLOW, CGC  
*registered name*

BERNESE MOUNTAIN DOG  
*breed*

*film/test/lab #*

900255001206508  
*tattoo/microchip/DNA profile*

2690550  
*application number*

05/19/2026  
*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.

WS86560503  
*registration no.*

F  
*sex*

04/27/2025  
*date of birth*

12  
*age at evaluation in months*



A Not-For-Profit Organization

BMD-BCA3139/12F/C-VPI  
*O.F.A. NUMBER*

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

NORMAL/CLEAR - CARDIOLOGIST

*owner*  
DANIEL D. TROYER  
2878 TOWNSHIP RD 190  
BALTIMORE OH 43804

OFA eCert



Verify QR scan

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

[www.ofa.org](http://www.ofa.org)

This electronic OFA certificate was generated on: 05/19/2026

This certification can be verified on the OFA website by entering the animal'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@OFA.ORG](mailto:CORRECTIONS@OFA.ORG) to request a correction.

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

OFA website: [www.ofa.org](http://www.ofa.org)  
E-mail address: [ofa@ofa.org](mailto:ofa@ofa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073

**ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.**

**PINEDRIVE'S JOLLY WILLOW**  
*registered name*

**BERNESE MOUNTAIN DOG**  
*breed*

**1068689**  
*film/test/lab #*

**900255001206508**  
*tattoo/microchip/DNA profile*

**2690550**  
*application number*

**05/01/2026**  
*date of report*

**RESULTS:**

Based upon the exam dated 04/18/2026, this animal has been found to be free of observable inherited eye disease and has been issued an Eye Certification Registry Number which is valid for one year from the time of the exam.

**WS86560503**  
*registration no.*

**F**  
*sex*

**04/27/2025**  
*date of birth*

**11**  
*age at evaluation in months*



A Not-For-Profit Organization

**BMD-EYE5285/11F-VPI**  
*O.F.A. NUMBER*

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

**NORMAL**

**owner**  
**DANIEL D. TROYER**  
**2878 TOWNSHIP RD 190**  
**BALTIC OH 43804**

OFA eCert



Verify QR scan

*G.G. Keller, DVM*

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

**www.ofa.org**

This electronic OFA certificate was generated on: 05/01/2026

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E-mail address: [ofa@ofa.org](mailto:ofa@ofa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073

**Orthopedic Foundation for Animals**  
**Preliminary Elbow Dysplasia Evaluation Report**



A Not-for-Profit  
Organization

**PINEDRIVE'S JOLLY WILLOW**  
*registered name*

**WS86560503**  
*registration no.*

**BERNESE MOUNTAIN DOG**  
*breed*

**F**  
*sex*

*film/test/lab #*

**04/27/2025**  
*date of birth*

**900255001206508**  
*tattoo/microchip/DNA profile*

**9**  
*age at evaluation in months*

**2690550**  
*application number*

**02/23/2026**  
*date of report*

**Owner**

**DANIEL D. TROYER**  
**2878 TOWNSHIP RD 190**  
**BALTIC OH 43804**

**Veterinarian**

**HYLL VU VETERINARY SERVICES**  
**P.O. BOX 184**  
**BERLIN OH 44610**

**Preliminary Elbow Dysplasia Evaluation Report**

✓ negative for elbow dysplasia

L ✓ R ✓

**ELBOW DYSPLASIA**

GRADE I

L \_\_\_\_\_ R \_\_\_\_\_

GRADE II

L \_\_\_\_\_ R \_\_\_\_\_

GRADE III

L \_\_\_\_\_ R \_\_\_\_\_

**RADIOGRAPHIC FINDINGS**

degenerative joint disease (DJD)

L \_\_\_\_\_ R \_\_\_\_\_

united anconeal process (UAP)

L \_\_\_\_\_ R \_\_\_\_\_

fragmented coronoid process (FCP)

L \_\_\_\_\_ R \_\_\_\_\_

osteochondrosis

L \_\_\_\_\_ R \_\_\_\_\_

*G.G. Keller, DVM*

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

# Genetic Summary Report

**Animal Name:** Willow

**Owner:**

daniel troyer

Membership Number : Not assigned

Member Body/Breed Club: Not assigned

Approved Collection Method: No





Scan to authenticate  
this Report online

## Genetic Summary Report

### Owner's details

|       |               |
|-------|---------------|
| Name: | daniel troyer |
|-------|---------------|

### Animal's Details

|                   |                          |
|-------------------|--------------------------|
| Registered Name : | PINEDRIVE'S JOLLY WILLOW |
|-------------------|--------------------------|

|            |        |
|------------|--------|
| Pet Name : | Willow |
|------------|--------|

|                       |            |
|-----------------------|------------|
| Registration Number : | WS86560503 |
|-----------------------|------------|

|          |                      |
|----------|----------------------|
| Breed: : | Bernese Mountain Dog |
|----------|----------------------|

|                    |  |
|--------------------|--|
| Microchip Number : |  |
|--------------------|--|

|        |        |
|--------|--------|
| Sex: : | Female |
|--------|--------|

|                 |               |
|-----------------|---------------|
| Date of Birth : | 27th Apr 2025 |
|-----------------|---------------|

|          |  |
|----------|--|
| Colour : |  |
|----------|--|

### Sample Collection Details

|               |           |
|---------------|-----------|
| Case Number : | 26US07173 |
|---------------|-----------|

|                |  |
|----------------|--|
| Collected By : |  |
|----------------|--|

|                       |    |
|-----------------------|----|
| Approved Collection : | No |
|-----------------------|----|

|               |      |
|---------------|------|
| Sample Type : | SWAB |
|---------------|------|

### Test Details

|                  |                                           |
|------------------|-------------------------------------------|
| Test Requested : | Bernese Mountain Dog – Full Breed Profile |
|------------------|-------------------------------------------|

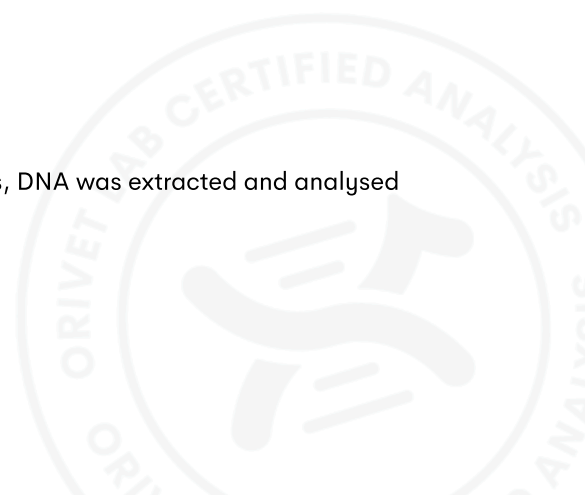
|            |        |
|------------|--------|
| Pet Name : | Willow |
|------------|--------|

|                |               |
|----------------|---------------|
| Date of Test : | 30th Jun 2026 |
|----------------|---------------|

### Authorisation

Sample with Lab ID Number 26US07173 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

Orivet Genetic Analyst





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this Report online

## Genetic Summary Report

### Health Tests Reported

| Breed Sense | Diseases                                            | Result                               |
|-------------|-----------------------------------------------------|--------------------------------------|
| ✓           | Degenerative Myelopathy                             | NORMAL (N/N) - [NO VARIANT DETECTED] |
| ✓           | Degenerative Myelopathy (Bernese Mountain Dog Type) | NORMAL (N/N) - [NO VARIANT DETECTED] |
| ✓           | von Willebrand's Disease Type I                     | NORMAL (N/N) - [NO VARIANT DETECTED] |

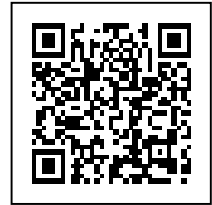
Owner's Name : daniel troyer

Pet Name : Willow

Microchip Number

Approved Collection Method : No





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this Report online

## Genetic Summary Report

### Health Tests Reported

| Breed Sense | Traits                                           | Result                                                                                                          |
|-------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| ✓           | A Locus (Agouti)                                 | $a^t/a^t$ - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]                                   |
| ✓           | B Locus - Bd, Bs, Bc [Various Breeds]            | BB [BcBc BdBd BsBs] - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE                                               |
| ✓           | Curly Coat/Hair Variant 1                        | NEGATIVE FOR THE R151W (C1) VARIANT - NOT SHOWING THE CURLY COAT PHENOTYPE                                      |
| ✓           | E Locus - (Cream/Red/Yellow)                     | E/E - DOMINANT BLACK DOES NOT CARRY YELLOW/RED/WHITE                                                            |
| ✓           | K Locus (Dominant Black)                         | $k^y/k^y$ - RECESSIVE NON- BLACK [COLOUR PATTERN DETERMINED BY A LOCUS]                                         |
| ✓           | Sex Determination - ZFX/Y                        | DOG IS FEMALE                                                                                                   |
| ✓           | Shedding (MC5R)                                  | SHD/shd [MODERATE SHEDDING] - ONE COPY OF THE SHD (MC5R) VARIANT DETECTED [REFER TO FURNISHINGS (IC) FOR LEVEL] |
|             | Coat Composition CFA28 Gene (Double/Single Coat) | UDC/udc - ONE COPY OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED                                      |

Owner's Name : daniel troyer

Pet Name : Willow

Microchip Number

Approved Collection Method : No



# Glossary of Genetic Terms (Results)



## 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
- 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](mailto:admin@orivet.com) and we will be happy to work with you to answer any relevant questions.

