

AUSTRALIAN SHEPHERD CLUB OF AMERICA, INC.

Registered Name *RAINEDANCE WRITTEN IN STONE*

ASCA Reg. # *E126449*

Sex *MALE* ASCA Litter# *64670*
 Body Color *BLUE MERLE* Trim Color *WHITE/COPPER*
 Eye Color *LEFT- BLUE RIGHT- BLUE*
 Sire *CH WRITTEN AND DIRECTED BY TIMARU DNA-CP E107775*
 Dam *LAKEHILLS MILLENNI "EM" MISCHIEF E106458*
 Litter Owner(s) *M. RAINE LUTZ*

D/B *2/10/2003*
 Tail Length *DOCKED*



Established 1957

ASCA CERTIFIES THAT IT ACCURATELY MAINTAINS THE GENEALOGICAL INFORMATION WHICH IS FURNISHED TO IT BY BREEDERS. THE LINEAGE OF A REGISTERED DOG CAN BE DETERMINED WITH CERTAINTY BY DNA TESTING SPONSORED BY ASCA.

THIS CERTIFICATE ISSUED WITH THE RIGHT TO CORRECT OR REVOKE BY THE AUSTRALIAN SHEPHERD CLUB OF AMERICA, INC

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M. RAINE LUTZ
1394 CADENCE WAY
SANTA ROSA, CA 95401

May 19, 2003

CERTIFICATE ISSUED

REGISTRATION CERTIFICATE

AMERICAN KENNEL CLUB

NAME
RAINEDANCE WRITTEN IN STONE

NUMBER
DN03194201

BREED
AUSTRALIAN SHEPHERD

SEX
MALE

COLOR
BLUE MERLE, WHITE MRKNGS, TAN POINTS

DATE OF BIRTH
FEBRUARY 10, 2003

SIRE
CH WRITTEN AND DIRECTED BY TIMARU
DL85529101 11-02 OFA24G AKC DNA #V256541 (CAN)

DAM
LAKEHILLS MILLENNI "EM" MISCHIEF
DL81438306 07-03 OFA31E CERF33

BREEDER
M RAINE LUTZ

CERTIFICATE ISSUED
JUNE 23, 2003

OWNER

M RAINE LUTZ
1394 CADENCE WAY
SANTA ROSA, CA 95401-9189



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.

REGISTRATION CERTIFICATE



Established 1957

AUSTRALIAN SHEPHERD CLUB OF AMERICA[®]

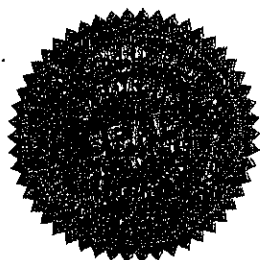
DNA PARENTAGE VERIFICATION

This Certifies that the Australian Shepherd

CH RAINEDANCE WRITTEN IN STONE DNA-VP E126449

owned by

M. RAINE LUTZ



Sire: CH WRITTEN AND DIRECTED BY
TIMARU DNA-VP

Dam: CH LAKEHILLS MILLENNI "EM"
MISCHIEF GS-N JS-N RS-N
DNA-CP

has been verified and recorded in the DNA Database.

December 16, 2005

Issued this date

[Signature]
ASCA President

THE AMERICAN KENNEL CLUB

CERTIFICATE OF DNA ANALYSIS

CH RAINEDANCE WRITTEN IN STONE

Australian Shepherd

Male

Birthdate: 10-Feb-2003

Reg # DN031942/01

Date of Analysis: 07-Jun-2005

Owned by: M Lutz

DNA Profile # V365362

The following genotype uniquely represents the MMI Genomics
certified genetic identity of the dog named herein:

C0415618

DN031942/01



CE EE AD HI CD EE CG BD BB AH GG DD BF XY

PEZ1 01 PEZ1 05 PEZ1 05 PEZ1 06 PEZ1 08 PEZ1 12 PEZ1 20 UCB1 2010 UCB1 2054 UCB1 2079 PEZ1 16 PEZ1 17 PEZ1 21 GEN

Thomas W. Sharp

Thomas W. Sharp, Assistant Vice-President
AKC



**AMERICAN
KENNEL CLUBSM**

[Signature] PhD, MBA

Dennis Fantin, Ph.D., MBA
MMI GENOMICS, INC.

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

RAINEDANCE WRITTEN IN STONE

AUSTRALIAN SHEPHERD

BLUE MERLE WHITE & TAN

059 279 358

1187112

6/22/2005

date of report

DN03194201

AS-20914G27M-PI

059 279 358

1187112

6/22/2005

date of report



A Not-For-Profit Organization

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

Based upon the radiograph, submitted the consensus was that no evidence of hip dysplasia was recognized.

GOOD

The hip joint conformation was evaluated as:

OWNER

M. RAINE LUTZ
1394 CADENCE WAY
SANTA ROSA, CA 95401-9189

M. RAINE LUTZ
1394 CADENCE WAY
SANTA ROSA, CA 95401-9189

OWNER

www.ofa.org

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

RAINEDANCE WRITTEN IN STONE, CH

AUSTRALIAN SHEPHERD

BLUE MERLE

059 279 358

1187112

11/4/2005

date of report

DN03194201

AS-EL1821M32-PI

059 279 358

1187112

11/4/2005

date of report



A Not-For-Profit Organization

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

Based upon the radiographs submitted the consensus was that no evidence of elbow dysplasia was recognized.

NORMAL

OWNER

M. RAINE LUTZ
1394 CADENCE WAY
SANTA ROSA, CA 95401-9189

M. RAINE LUTZ
1394 CADENCE WAY
SANTA ROSA, CA 95401-9189

www.ofa.org

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

RAINEDANCE WRITTEN IN STONE, CH

AUSTRALIAN SHEPHERD

BLUE MERLE

059 279 358

1187112

11/21/2005

date of report

DN03194201

AS-TH7332M-PI

059 279 358

1187112

11/21/2005

date of report



A Not-For-Profit Organization

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

Based on the laboratory results submitted no evidence of thyroid disease was recognized.

NORMAL

OWNER

M. RAINE LUTZ
1394 CADENCE WAY
SANTA ROSA, CA 95401-9189

M. RAINE LUTZ
1394 CADENCE WAY
SANTA ROSA, CA 95401-9189

www.ofa.org

CANINE HEALTH INFORMATION CENTER

RAINEDANCE WRITTEN IN STONE, CH

AUSTRALIAN SHEPHERD

BLUE

059 279 358

10/24/2006

date of report

DN03194201

AS-20914G27M-PI

059 279 358

10/24/2006

10/24/2006

date of report

2/10/2003

date of birth

2/10/2003

date of birth

CHIC#: 24521

REQUIRED TESTS

HIPS

ELBOW

OTHER TESTS

THYROID

DN03194201

AS-20914G27M-PI

059 279 358

10/24/2006

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THYROID

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AS-20914G27M-PI

059 279 358

10/24/2006

10/24/2006

date of report

2/10/2003

date of birth

Pet Care
1370 Fulton Rd.
Santa Rosa, CA 95401
Tel: 707-579-5900
Fax: 707-579-3900

Client # 71136
Chart # 3957

Accession No. IRBD04201741	Doctor KENYON	Owner LUTZ	Pet Name BARON	Received 10/20/2005
Species Canine	Breed Australian Shepherd M	Sex	Pet Age 2Y	Reported 10/27/2005 10:34 PM

Test Requested	Results	Reference Range	Units
COMPLETE BLOOD COUNT			
WBC	4.9	4.0-15.5	10 ³ /μL
RBC	7.4	4.8-9.3	10 ⁶ /μL
HGB	18.9	12.1-20.3	g/dL
HCT	54	36-60	%
MCV	72	58-79	fL
MCH	25.6	19-28	pg
MCHC	35	30-38	%
Comment			
RBC MORPHOLOGY	NORMAL		
Differential	Absolute	%	
Neutrophils	2646	54	/μL
Lymphocytes	1960	40	/μL
Monocytes	147	3	/μL
Eosinophils	98	2	/μL
Basophils	49	1	/μL
Platelet Estimate	Adequate		
Platelet Count	231	170-400	10 ³ /μL

PATH REVIEW (CBC)

Path Review

Please see Pathologist's comment.
Please see Pathologist's comment.

PATH REVIEW SPECIAL

Path Review

COMMENTS:

Atypical lymphocytes noted. These are likely to be due to immune stimulation.

CBC should be monitored to check for persistence of this abnormality.

***** ADDENDUM COMMENTS 10/25/2005 *****

* No evidence of Pelger-Heut anomaly is observed in this smear.

Reviewed by:

Michael P. James, BVSc, PhD, MRCVS
vs:ay

***** ADDENDUM COMMENTS - 10/27/2005 *****

34



Certificate Number: AC1191

Animal Health Trust
Newmarket
Suffolk, UK

DNA TEST FOR HEREDITARY CATARACT

Registered Name: Raine Dance Written In Stone

Registration Number: DN03194201

Microchip/Tattoo Number: 059 279 358

Breed: **AUSTRALIAN SHEPHERD**

This dog has ONE COPY of the hereditary cataract mutation.

Signed:

Date: 14 January, 2009

Explanation of terms:

This dog has one copy of the HC mutation and is at increased risk of developing cataracts during its lifetime. The dog will pass the mutation to 50% (on average) of its offspring.

MDR1* Genotyping Results

M. Raine Lutz,

Your dog, "Baron" has been tested for the Multi-Drug Sensitivity mutation, the result is:

* Normal/Normal

Explanation of test results:

Normal/Normal- These dogs do not carry the mutation, and will not pass on the mutation to their offspring. These dogs would not be expected to experience unexpected adverse drug reactions to normal doses of ivermectin, loperamide (Imodium®), and some anticancer drugs.

Mutant/Mutant- These dogs carry the mutation and can not pass on a normal gene to their offspring. These dogs would be expected to experience toxicity after normal doses of loperamide (Imodium®), and some anticancer drugs, and high doses of ivermectin (greater than 50 micrograms per kilogram).

Mutant/Normal- These dogs carry the mutation and may pass on the mutant gene to their offspring. These dogs may experience toxicity after normal doses of loperamide (Imodium®), and some anticancer drugs, and high doses of ivermectin (greater than 50 micrograms per kilogram).

A current list of problem drugs for dogs with the MDR1 mutation is included in this communication. The list can also be found on our website:

<http://www.vetmed.wsu.edu/depts-VCPL/>

We are investigating other drugs that may cause problems for these dogs.

Steve Bentjen

Veterinary Clinical Pharmacology Laboratory Manager
PO Box 609
Pullman WA 99163-0609
Phone/FAX 509-335-3745
Email< VCPL@vetmed.wsu.edu
<http://www.vetmed.wsu.edu/depts-VCPL/>

* PCR for this service is performed pursuant to an agreement with Roche Molecular Systems, Inc. US and foreign patents pending for MDR1 testing.



OPTIGEN® LLC

for the genetic advantage

Test Report

M. Raine Lutz
1394 Cadence Way
Santa Rosa, CA 95401
USA

Optigen Accession #: **10-2675**
Report issued for: **Baron**

OptiGen Test Certificate

Optigen Accession #: 10-2675

Report Issued: 04/14/2010

Test Performed: CEA/CH test

* **Result: Normal**
Sample Type: Blood

Registered Name: RaineDance Written In Stone

Reg#: DN031942 01

Breed: Australian Shepherd

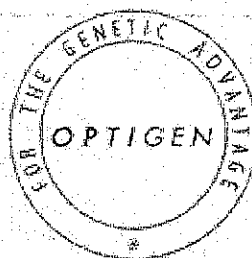
ID#: 059 279 358

Sex: Male

Date of Birth: February 10, 2003

Owner(s):

M. Raine Lutz



Susan Pearson Kelling
OptiGen Authorized Signature

www.optigen.com

Test Results: Genotype of your dog is Normal.

Risk for developing Collie Eye Anomaly/Choroidal Hypoplasia (CEA/CH): This dog will never develop CEA/CH.

Significance for breeding: This dog can be bred to any mate and will produce no pups affected with CEA/CH.

This interpretation is based on the test result of the DNA test for the specific mutation identified as causing CEA/CH in Australian Shepherds as of the date on this report.

For further information, please consult the OptiGen website at www.optigen.com.

International DNA Based Genetic Database: To register this result with OFA, make a copy, sign below, mail WITH FEE, to OFA, 2300 E. Nifong Blvd, Columbia, MO 65201-3856 or FAX to 573-875-5073. www.offa.org

I hereby certify that the sample submitted was of the animal described on this application. I authorize the OFA to release all information on the test results thus placing the results in the public domain and I hereby release OFA from any and all liability associated with the release of test information.

Signature of owner or authorized representative: _____

Cornell Business & Technology Park

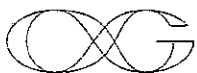
tel: 607.257.0301

fax: 607.257.0353

767 Warren Road, Suite 300, Ithaca, NY 14850

email: genetest@optigen.com

web: www.optigen.com



OPTIGEN® LLC

for the genetic advantage

Test Report

M. Raine Lutz
1394 Cadence Way
Santa Rosa, CA 95401
USA

Optigen Accession #: **10-2675**
Report issued for: **Baron**

OptiGen Test Certificate

Optigen Accession #: **10-2675**

Report Issued: **04/12/2010**

Test Performed: **pred Mutation Test for PRA**

* Result: **Normal**
Sample Type: **Blood**

Registered Name: **RaineDance Written In Stone**

Reg#: **DN031942 01**

Breed: **Australian Shepherd**

ID#: **059 279 358**

Sex: **Male**

Date of Birth: **February 10, 2003**

Owner(s):

M. Raine Lutz



Susan Pearson
OptiGen Authorized Signature

www.optigen.com

Test Results: Genotype of your dog is Normal/Clear.

Risk for developing pred-PRA: This dog will never develop the pred form of PRA (progressive rod-cone degeneration form of Progressive Retinal Atrophy).

Significance for breeding: Genetically Normal/Clear dogs can be bred to any dog and will produce no pups affected with the pred form of PRA.

This interpretation is based on the test result of the DNA test for the specific mutation identified as causing the pred form of PRA in Australian Shepherds as of the date on this report.

For further information, please consult the OptiGen website at www.optigen.com.

International DNA Based Genetic Database: To register this result with OFA, make a copy, sign below, mail WITH FEE, to OFA, 2300 E. Nifong Blvd, Columbia, MO 65201-3856 or FAX to 573-875-5073. www.offa.org

I hereby certify that the sample submitted was of the animal described on this application. I authorize the OFA to release all information on the test results thus placing the results in the public domain and I hereby release OFA from any and all liability associated with the release of test information.

Signature of owner or authorized representative: _____

Cornell Business & Technology Park

tel: 607.257.0301

fax: 607.257.0353

767 Warren Road, Suite 300, Ithaca, NY 14850

email: genetest@optigen.com

web: www.optigen.com

Certificate of Registration

No 31159-3

We hereby certify that the sample obtained from
Animal ID: CH. Rainedance Written In Stone - Baron - DN03194201
Breed: Australian Shepherd
Owner: M. Raine Lutz
has been tested for

Test: C1282 - Canine Coat and Nose Color Test Gr. B **Result:** Genotype EEBbDD
and registered with the HealthGene DNA Bank.

Coat Colour: black,bicolor,tricolor or blue merle, Nose Colour: Black; Hidden Colour: Brown(red)

Signature

09/19/2006
Date



2175 Keele St., Toronto, ON M6M 3Z4, Canada, Phone: 416-658-2040, Internet: <http://www.healthgene.com>