

Jess's Nothing But The Best „Riley“



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Jennifer & Mirko Walter
Am Ehrenmal 14 | 41564 Kaarst | NRW | Germany

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Hip / Elbow (HD & ED)

DNA



Established 1957

AUSTRALIAN SHEPHERD CLUB OF AMERICA, INC.®

presents to the *AUSTRALIAN SHEPHERD*
JESS'S NOTHING BUT THE BEST DNA-VP

Registration No. *E185851*

THE AWARD OF DNA-VP

has been verified and recorded in the DNA Database.

having fully completed the requirements of this club

On this date *April 25, 2014*

OWNER

JENNIFER WALTER



May 12, 2014

Issued this date

Ann B. DeChant
ASCA President

Therion International, LLC

Australian Shepherd Club of America DNA Certification

Date Reported: 4/25/2014

Sire:

Heavenly Stars Clap Your Hands

Registry Number

E177048

Offspring

Jess's Nothing But the Best

Internal ID

A140414

Registry Number

E185851

Sex

Male

Dam:

Some Kind of Dreams Howdoyoudo DNA-VP

Registry Number

E158229

Individual qualifies as offspring of the indicated Sire and Dam

Sire DNA Genotype constructed by Biopsytec (Adjusted by Therion International, LLC)											
1.9A	AH125	AH126	UK101	UK109	UK111	UK118	UK133	CPH3	CXX403	CXX2137	LEI007
188 196	94 108	197 199	133 133	112 115	77 91	124 124	165 165	182 182	272 287	166 178	270 272

Offspring DNA Genotype constructed by Therion International, LLC											
1.9A	AH125	AH126	UK101	UK109	UK111	UK118	UK133	CPH3	CXX403	CXX2137	LEI007
	108 108	197 199	127 133	112 115	77 87	124 124	161 165	168 182	272 0	162 166	0 0

Dam DNA Genotype constructed by Therion International, LLC											
1.9A	AH125	AH126	UK101	UK109	UK111	UK118	UK133	CPH3	CXX403	CXX2137	LEI007
	94 108	0 0	127 139	0 0	87 91	124 132	0 0	168 182	272 276	162 186	274 0

Augen / Eyes

Gebiss / Teeth

Hoden / testes

Multi Drug Resistance Gene (MDR1)



Slovgen s.r.o., Diagnostické laboratórium, Dúbravská cesta 21,
841 04 Bratislava 4, tel : 02/5930 7434, 0905 550 916, fax : 5930 7434

DNA ANALYSIS PROTOCOL FOR DETECTION OF HEREDITARY DISEASES

Submitter of analysis : Jennifer Walter
Am Ehrenmal 14
41564 Kaarst, Germany

Date of sampling : 10.04.2014
Date of samples receipt: 14.04.2014
Date of analysis : 17.04.2014

Breed/name	Tattoo or RFID id/ Certificate of origin	Laboratory code	Type of analysis	Result
/ Jess's Nothing but the best	967000009658595	140414/K1337	MDR1	N/N (+/+)
				Non-affected

The results of analysis are stored in a database under the lab code 140414/K1337.

Hints:

Genotype MDR1 +/- or N/N (non-affected): Both genes, inherited from both mother and father are undamaged (healthy).

Genotype MDR1 +/- or N/P (carrier): Subjects with confirmed heterozygous genotype are carriers. Defective gene can be transmitted to offspring. Unwanted side effects are unlikely to occur but cannot be excluded.

Genotype MDR1 -/- or P/P (affected): Particular caution is necessary in case an individual is diagnosed MDR1 -/- genotype. Treatment with certain drugs in this case can cause significant problems in some cases lethal neurotoxic reaction.

Notice: This protocol applies exclusively to the sample and the data that were supplied by the submitter. DNA analysis concerns only the above mentioned disease. No information regarding the customer as well as purpose and results of the analysis will be provided to third parties.

In Bratislava 18.04.2014

Ing. Marcela Bieliková, PhD.



Heat Shock Factor Protein 4 (HSF4)



Slovgen s.r.o., Diagnostické laboratórium, Dúbravská cesta 21,
841 04 Bratislava 4, tel : 02/5930 7434, 0905 550 916, fax : 5930 7434

DNA ANALYSIS PROTOCOL FOR DETECTION OF HEREDITARY DISEASES

Submitter of analysis : Jennifer Walter
Am Ehrenmal 14
41564 Kaarst, Germany

Date of sampling : 10.04.2014
Date of samples receipt: 14.04.2014
Date of analysis : 29.04.2014

Breed/name	Tattoo or RFID id/ Certificate of origin	Laboratory code	Type of analysis	Result
/ Jess's Nothing but the best	967000009658595	140414/K1337	HSF4/HC	N/N
				Non-affected

The results of analysis are stored in a database under the lab code 140414/K1337.

HSF4 (HC) – Hereditary cataract – deletion/insertion 1 bp in exon 9 of HSF4-gene (Heat shock factor protein 4).

Genotype HC N/N – non-affected subject – **NORMAL (NON-AFFECTED)**

Both genes, inherited from both male and female are unaffected. That means that the subject has both alleles healthy.

Genotype HC N/A – **CARRIER**

Subjects with confirmed heterozygous N/A genotype are carriers. Gene mutation can be transmitted to offspring.

The HC disorder in Australian Shepherds has an **autosomal dominant** mode of inheritance, however with incomplete penetrance. It means that the disease may not develop in every carrier of this deletion and effects of other genetic factors or environmental factors are not excluded. The probability that the binocular HC develops in individuals with one copy of deletion (carriers) is approximately 17 times higher than in dogs clear of the deletion mutation (Mellersh et al. 2009).

Notice: This protocol applies exclusively to the sample and the data that were supplied by the submitter. DNA analysis concerns only the above mentioned disease. No information regarding the customer as well as purpose and results of the analysis will be provided to third parties.



In Bratislava 30.04.2014

Ing. Marcela Bielíková, PhD.

Collie Eye Anomalie (CEA)



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841 04 Bratislava 4, tel : 02/5930 7434, 0905 550 916, fax : 5930 7434

DNA ANALYSIS PROTOCOL FOR DETECTION OF HEREDITARY DISEASES

Submitter of analysis : Jennifer Walter
Am Ehrenmal 14
41564 Kaarst, Germany

Date of sampling : 10.04.2014
Date of samples receipt: 14.04.2014
Date of analysis : 23.04.2014

Breed/name	Tattoo or RFID id/ Certificate of origin	Laboratory code	Type of analysis	Result
/ Jess's Nothing but the best	967000009658595	140414/K1337	CEA	R/R
				Non-affected

The results of analysis are stored in a database under the lab code 140414/K1337.

Hints

Genotype CEA R/R – healthy subject – non-affected

Both genes, inherited from both male and female are unaffected. That means that the subject has both alleles healthy.

Genotype CEA R/r - carrier

Subjects with confirmed heterozygous CEA R/r genotype are carriers. Gene mutation can be transmitted to offspring.

Genotype CEA r/r – affected subject

The subject is a homozygote with r/r genotype, which inherited the affected allele from both parents and thus is affected by the disease.



Notice: This protocol applies exclusively to the sample and the data that were supplied by the submitter. DNA analysis concerns only the above mentioned disease. No information regarding the customer as well as purpose and results of the analysis will be provided to third parties.

In Bratislava 24.04.2014
Ing. Marcela Bieliková, PhD.

Progressive Retinaatrophie (PRA)



Slovgen s.r.o. , Diagnostické laboratórium, Dúbravská cesta 21,
841 04 Bratislava 4, tel : 02/5930 7434, 0905 550 916, fax : 5930 7434

DNA ANALYSIS PROTOCOL FOR DETECTION OF HEREDITARY DISEASES

Submitter of analysis : Jennifer Walter
Am Ehrenmal 14
41564 Kaarst, Germany

Date of sampling : 10.04.2014
Date of samples receipt: 14.04.2014
Date of analysis : 25.04.2014

Breed/name	Tattoo or RFID id/ Certificate of origin	Laboratory code	Type of analysis	Result
/ Jess's Nothing but the best	967000009658595	140414/K1337	PRA-prcd	N/N Non-affected

The results of analysis are stored in a database under the lab code 140414/K1337.

Hints:

Genotype PRA-prcd N/N – healthy subject – non-affected

Both genes, inherited from both male and female are unaffected. That means that the subject has both alleles healthy.

Genotype PRA-prcd N/A – carrier

Subjects with confirmed heterozygous N/A genotype are carriers. Gene mutation can be transmitted to offspring.

Genotype PRA-prcd A/A – affected subject

The subject is a homozygote with A/A genotype, which inherited the affected allele from both parents and thus is affected by the disease.



Notice: This protocol applies exclusively to the sample and the data that were supplied by the submitter. DNA analysis concerns only the above mentioned disease. No information regarding the customer as well as purpose and results of the analysis will be provided to third parties.

In Bratislava 25.04.2014
Ing. Marcela Bielíková, PhD.

Dilute

DEGENERATIVE MYELOPATHIE (DM)



Slovgen s.r.o. , Diagnostické laboratórium, Dúbravská cesta 21,
841 04 Bratislava 4, tel : 02/5930 7434, 0905 550 916, fax : 5930 7434

DNA ANALYSIS PROTOCOL FOR DETECTION OF HEREDITARY DISEASES

Submitter of analysis : Jennifer Walter
Am Ehrenmal 14
41564 Kaarst, Germany

Date of sampling : 10.04.2014
Date of samples receipt: 14.04.2014
Date of analysis : 22.04.2014

Breed/name	Tattoo or RFID id/ Certificate of origin	Laboratory code	Type of analysis	Result
/ Jess's Nothing but the best	967000009658595	140414/K1337	DM	N/N (G/G)
				Non-affected

The results of analysis are stored in a database under the lab code 140414/K1337.

Hints:

DM –degenerative myelopathy

DM **N/N** (G/G) – homozygous individual carrying two G alleles – **non – affected (clear)**

DM **N/DM** (G/A) – heterozygous **carrier** carrying one allele G and one A

DM **DM/DM** (A/A) – homozygous **at risk/affected** individual – both alleles are A



Notice: This protocol applies exclusively to the sample and the data that were supplied by the submitter. DNA analysis concerns only the above mentioned disease. No information regarding the customer as well as purpose and results of the analysis will be provided to third parties.

In Bratislava 23.04.2014
Ing. Marcela Bielíková, PhD.

NEURONALE ZEROID LIPOFUSZINOSE (NCL)

Sonstiges / miscellaneous

Pedigree

AUSTRALIAN SHEPHERD CLUB OF AMERICA, INC.

Registered Name *JESS'S NOTHING BUT THE BEST*

ASCA Reg. # *E185851*

Sex *MALE*

ASCA Litter# *93007*

D/B *2/12/2014*

Body Color *RED MERLE*

Trim Color *WHITE/COPPER*

Eye Color *LEFT- BLUE RIGHT- BLUE*

Sire *HEAVENLY STARS CLAP YOUR HANDS DNA-VP E177048*

Dam *SOME KIND OF DREAMS HOWDOYOU DO JS-N DNA-VP E158229*

Litter Owner(s) *LINDSAY HERMANS*

O
w
n
e
r
s

*JENNIFER WALTER
AM EHRENMAL 14
41564 KAARST
GERMANY*



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

April 29, 2014

CERTIFICATE ISSUED

REGISTRATION CERTIFICATE

PEDIGREE: JESS'S NOTHING BUT THE BEST „RILEY“

SIRE: Champ Heavenly Stars Clap Your Hands DNA-VP Blue Merle w/c red factored *11/16/11  HD: A1 HSF4: Free MDR1: Free CEA: Free PRA: Free Full Dentition / Scissors Bite Eyes: Free	SIRE: Plinko Thornapple Love Lock Down Black w/c *11/17/08  HD: A ED: Free HSF4: Free MDR1: Free Full Dentition / Scissors Bite Eyes: Free DAM: Farryn BleuRoyal Uva Candy Red Merle w/c *08/09/09  HD: A HSF4: Free MDR1: Free CEA: Free PRA: Free Full Dentition / Scissors Bite Eyes: Free	SIRE: SHAMBA CH Thornapple King of Diamonds Blue Merle w/c *09/24/02  DAM: Tundra Thornapple Black Ice Black w/c red factored *09/25/03  HD: Good ED: Free SIRE: Hummer Multi Ch. Thornapple Unstoppable Red Merle w/c *08/10/07  DAM: Gigi CH Thornapple Peachy Keen E141133 Black w/c red factored 05/09/05  HD: Good ED: Free Eyes: Free
DAM: Madison Some Kind of Dreams How Do You Do Red w/c *04/14/08  HD: A2 HSF4: Free (gen) MDR1: Free (gen) Full Dentition / Scissors Bite Eyes: Free	SIRE: Mars Multi Ch. Terra-Blue Outa This World Red w/c *01/30/03 +01/03/10  MDR1: Free HSF4: free Full Dentition / Scissors Bite Eyes: Free DAM: Dreamy Multi Ch. Some Kind of Magic's Dreamy Red Merle w/c *06/11/04 +08/17/13  MDR1: Free HSF4: Free Full Dentition / Scissors Bite Eyes: Free	SIRE: Kori Ch. Hearthsides Kori of Terra-Blue Blue Merle w/c red factored *06/09/08  HD: Excellent Eyes: Free DAM: Terra-Blue Bashfu Blue Merle w/c red factored *05/22/00  HD: Good ED: Free Eyes: Free SIRE: Ben Ch. Imagineer Get To Know Me Red Merle w/c *05/29/99 +2011  DAM: Some Kind of Magic's All That Jazz Red w/c 