

HAVANESE GENETIC HEALTH PANEL TEST REPORT

Provided Information: Case: NCD149041

Name: DEARHEART & BESEME'S SITTING ON A GOLD MINE Date Received: 05-Apr-2021

Report Issue Date: 15-Apr-2021

Registration: TS40068904 Report ID: 6619-7778-0751-2000

Verify report at www.vgl.ucdavis.edu/verify

DOB: 10/14/2018 Sex: Male Breed: Havanese Microchip: 981020027779807 Color: red sable Irish pied

Call Name: Nugget

Sire: ASUNRAY'S GOLD DIGGER'S DELIGHT Dam: DEARHEART'S BLING IS IN THE AIR

Reg: TS21925102 Reg: TS25292601

Microchip: Microchip:

RESULT INTERPRETATION

Chondrodystrophy (CDDY)	N/N	No copies of CDDY mutation.
Chondrodysplasia (CDPA)	CDPA/CDPA	2 copies of CDPA. Mutation causes leg shortening compared to N/N dogs.
Canine Multifocal Retinopathy (CMR1)	N/N	Normal - no copies of the CMR1 mutation.
vWD Type 1	N/N	Normal - no copies of vWF mutation associated with vWD Type 1.



HAVANESE GENETIC HEALTH PANEL TEST REPORT

Client/Owner/Agent Information: CHARLENE STOUTSENBERGER 575 NORTH 870 WEST WEST BOUNTIFUL, UT 84087-1962

 Case:
 NCD149041

 Date Received:
 05-Apr-2021

 Report Issue Date:
 15-Apr-2021

Report ID:

6619-7778-0751-2000

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Name: DEARHEART & BESEME'S SITTING ON A GOLD MINE

Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Havanese Genetic test results, please visit our website at: www.vgl.ucdavis.edu/services/dog/HavanesePanel.php

For terms and conditions of testing, please see www.vgl.ucdavis.edu/about/terms-and-conditions

Results are determined using PCR-based methods. The results relate only to the sample tested as identified by the submitter (for example, identity and/or breed).

Report authorized by Dr. Rebecca Bellone, VGL Director



DOG COAT TYPE TEST REPORT

Provided Information: Case: NCD149041

Name: DEARHEART & BESEME'S SITTING ON A GOLD MINE Date Received: 05-Apr-2021

Report Issue Date: 06-Dec-2021

 Registration:
 TS40068904
 Report ID:
 8529-8154-1787-1184

 Reissue of:
 1694-9100-9563-7193

Verify report at www.vgl.ucdavis.edu/verify

DOB: 10/14/2018 Sex: Male Breed: Havanese Microchip: 981020027779807 Color: red sable Irish pied

Call Name: Nugget

Sire: ASUNRAY'S GOLD DIGGER'S DELIGHT Dam: DEARHEART'S BLING IS IN THE AIR

Reg: TS21925102 Reg: TS25292601

Microchip: Microchip:

RESULT INTERPRETATION

COAT LENGTH	L/L	Dog has long hair.
CURL	N/N	Dog has straight coat.
FURNISHINGS	F/F	Dog has furnishings. All offspring will have furnishings
IMPROPER COAT		Not requested.



DOG COAT TYPE TEST REPORT

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 Report ID:
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 1694-9100-9563-7193

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Name: DEARHEART & BESEME'S SITTING ON A GOLD MINE

Additional Information

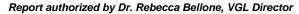
If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Dog Coat Type test results, please visit our website at: www.vgl.ucdavis.edu/services/DogCoatLengthCurlandFurnishings.php

Additional Comments

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OG GENETIC DIVERSITY ANALYSIS DEARHEART & BESEME'S SITTING ON A GOLD

MINE



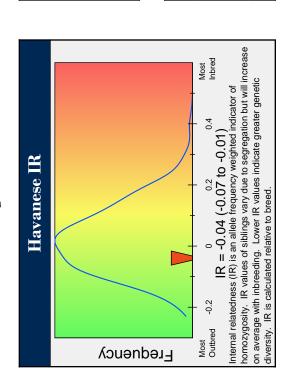
Breed: Havanese

Sex: Male

Color: red sable Irish pied

Reg: TS40068904

Report ID: 6923-0569-8972-8084 Print Date: April 13, 2021 Case: NCD149041





	田	Havanese DLA	DLA
	DLA I	DLA II	DLA I DLA II Maintaining diversity in the DLA which
Haplotype 1	1029	2075	helps regulate immune responses is beneficial to a breed. Choosing mates
Haplotype 2	1116	2070	differing in their DLA naplotypes helps maintain diversity in litters.



One Shields Avenue, Davis, CA 95616 Veterinary Genetics Laboratory

530-752-2211

www.vgl.ucdavis.edu

WEST BOUNTIFUL, UT 84087-1962 CHARLENE STOUTSENBERGER 575 NORTH 870 WEST



CANINE GENETIC DIVERSITY TEST REPORT

Provided Information:

Name: DEARHEART & BESEME'S SITTING ON A GOLD MINE

Registration: TS40068904

Case: NCD149041

Date Received: 05-Apr-2021
Report Issue Date: 13-Apr-2021

Report ID: 6923-0569-8972-8084

Verify report at www.vgl.ucdavis.edu/verify

DOB: 10/14/2018 Sex: Male Breed: Havanese Microchip: 981020027779807 Color: red sable Irish pied

Call Name: Nugget

Sire: ASUNRAY'S GOLD DIGGER'S DELIGHT Dam: DEARHEART'S BLING IS IN THE AIR

Reg: TS21925102 Reg: TS25292601

Microchip: Microchip:

INTERNAL RELATEDNESS

IR = -0.04 (-0.07 to -0.01)

DLA HAPLOTYPE RESULT

DLA I DLA II

Haplotype 1 1029 2075

Haplotype 2 1116 2070

DIVERSITY PANEL

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
1: AHT121	106/108	2: AHT137	131/147	3: AHTH130	119/125
4: AHTh171-A	225/231	5: AHTh260	244/248	6: AHTk211	87/89
7: AHTk253	288/288	8: C22.279	116/124	9: FH2001	132/132
10: FH2054	152/164	11: FH2848	234/242	12: INRA21	101/97
13: INU005	124/126	14: INU030	144/144	15: INU055	212/214
16: LEI004	85/85	17: REN105L03	237/241	18: REN162C04	206/208
19: REN169D01	214/220	20: REN169O18	160/162	21: REN247M23	270/276
22: REN54P11	236/238	23: REN64E19	139/145	24: VGL0760	23.2/26.2
25: VGL0910	16.1/18.1	26: VGL1063	14/14	27: VGL1165	26/28
28: VGL1828	16/20	29: VGL2009	11/11	30: VGL2409	17/17
31: VGL2918	14/15	32: VGL3008	20/23	33: VGL3235	11/14



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Name: DEARHEART & BESEME'S SITTING ON A GOLD MINE

Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

The Veterinary Genetics Laboratory is an institutional member of ISAG. DNA types are reported according to standardized nomenclature for markers in the ISAG panel.

For more detailed information on Canine Genetic Diversity test results, please visit our website at: www.vgl.ucdavis.edu/test/canine-genetic-diversity

For terms and conditions of testing, please see www.vgl.ucdavis.edu/about/terms-and-conditions

Results are determined using PCR-based methods. The results relate only to the sample tested as identified by the submitter (for example, identity and/or breed).

Report authorized by Dr. Rebecca Bellone, VGL Director



DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Provided Information: Case: NCD149041

Name: DEARHEART & BESEME'S SITTING ON A GOLD MINE Date Received: 05-Apr-2021

Report Issue Date: 16-Apr-2021

Registration: TS40068904 Report ID: 2974-3301-8961-1122

Verify report at www.vgl.ucdavis.edu/verify

DOB: 10/14/2018 Sex: Male Breed: Havanese Microchip: 981020027779807 Color: red sable Irish pied

Call Name: Nugget

Sire: ASUNRAY'S GOLD DIGGER'S DELIGHT Dam: DEARHEART'S BLING IS IN THE AIR

Reg: TS21925102 Reg: TS25292601

Microchip: Microchip:

RESULT

INTERPRETATION

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MC1R (E LOCUS)	E/e ¹	1 copy of black and 1 copy of red/yellow/cream
BROWN (B LOCUS)	B/B	Does not carry brown - cannot have brown offspring
DILUTE (D LOCUS)	D/D	No known dilution variants present.
DOMINANT BLACK (K LOCUS)	N/N	Dog does not have the dominant black mutation
AGOUTI (A LOCUS)	a ^y /a ^y	Homozygous for fawn/sable
MERLE		Not requested.
PIEBALD (S LOCUS)	N/S	Dog has 1 copy of piebald.
HARLEQUIN (GREAT DANE)		Not requested.
NATURAL BOBTAIL		Not requested.
DOBERMAN OCA		Not requested.
GERMAN SHEPHERD PANDA SPOTTING		Not requested.
INTENSITY DILUTION		Not requested.



DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

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Name: DEARHEART & BESEME'S SITTING ON A GOLD MINE

Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Coat Color test results, please visit our website at: www.vgl.ucdavis.edu/services/coatcolordog.php

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