

DOG GENETIC DIVERSITY ANALYSIS

CALHOUN'S DASH OF CAYENNE

Breed: Golden Retriever

Sex: Female

Color: Dark gold

DOB: 2022

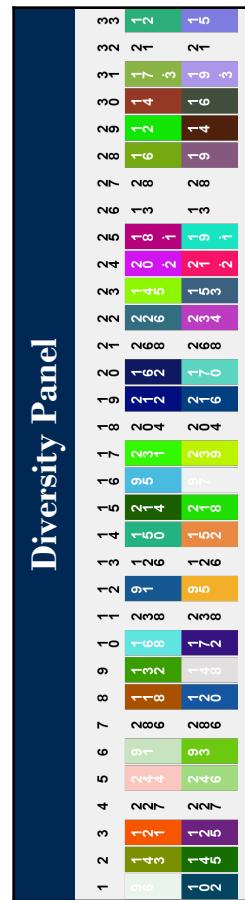
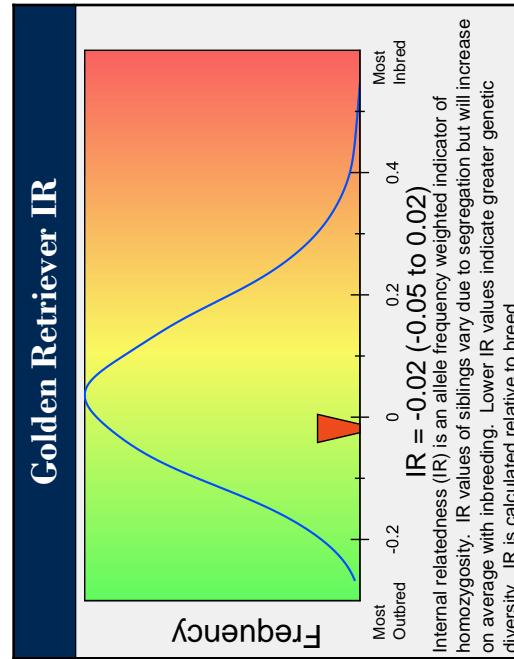
Reg: SS37274201

Case: NCD245155

Print Date: October 4, 2024

Report ID: 2351-1394-3123-7022

Golden Retriever IR



Golden Retriever DLA

DLA I	DLA II	Maintaining diversity in the DLA which helps regulate immune responses is beneficial to a breed. Choosing mates differing in their DLA haplotypes helps maintain diversity in litters.
Haplotype 1	1003	2001
Haplotype 2	1066	2048

Veterinary Genetics Laboratory
One Shields Avenue, Davis, CA 95616
530-752-2211
www.vgl.ucdavis.edu



TRACY CALHOUN
36290 GERIG DR SE
ALBANY, OR 97322

Provided Information:		Case: NCD245155
Name:	CALHOUN'S DASH OF CAYENNE	Date Received: 30-Sep-2024
Registration:	SS37274201	Report Issue Date: 04-Oct-2024
Report ID: 2351-1394-3123-7022		
Verify report at vgl.ucdavis.edu/verify		
DOB: 08/31/2022 Sex: Female Breed: Golden Retriever Microchip: 956000014299524 Color: Dark gold		
Call Name: Pepper		
Sire: WILDFIRE DASH O' TABASCO	Dam: GRAPEVINE'S HAVE YOU HEARD THE LATEST	
Reg: SR01749906	Reg: SS10053503	
Microchip:	Microchip:	

INTERNAL RELATEDNESS

IR = -0.02 (-0.05 to 0.02)

DLA HAPLOTYPE RESULT

	DLA I	DLA II
Haplotype 1	1003	2001
Haplotype 2	1066	2048

DIVERSITY PANEL

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
1: <i>AHT121</i>	102/96	2: <i>AHT137</i>	143/145	3: <i>AHTH130</i>	121/125
4: <i>AHTh171-A</i>	227/227	5: <i>AHTh260</i>	244/246	6: <i>AHTk211</i>	91/93
7: <i>AHTk253</i>	286/286	8: <i>C22.279</i>	118/120	9: <i>FH2001</i>	132/148
10: <i>FH2054</i>	168/172	11: <i>FH2848</i>	238/238	12: <i>INRA21</i>	91/95
13: <i>INU005</i>	126/126	14: <i>INU030</i>	150/152	15: <i>INU055</i>	214/218
16: <i>LEI004</i>	95/97	17: <i>REN105L03</i>	231/239	18: <i>REN162C04</i>	204/204
19: <i>REN169D01</i>	212/216	20: <i>REN169O18</i>	162/170	21: <i>REN247M23</i>	268/268
22: <i>REN54P11</i>	226/234	23: <i>REN64E19</i>	145/153	24: <i>VGL0760</i>	20.2/21.2
25: <i>VGL0910</i>	18.1/19.1	26: <i>VGL1063</i>	13/13	27: <i>VGL1165</i>	28/28
28: <i>VGL1828</i>	16/19	29: <i>VGL2009</i>	12/14	30: <i>VGL2409</i>	14/16
31: <i>VGL2918</i>	17.3/19.3	32: <i>VGL3008</i>	21/21	33: <i>VGL3235</i>	12/15

CANINE GENETIC DIVERSITY TEST REPORT

Client/Owner/Agent Information: TRACY CALHOUN 36290 GERIG DR SE ALBANY, OR 97322	Case: NCD245155 Date Received: 30-Sep-2024 Report Issue Date: 04-Oct-2024 Report ID: 2351-1394-3123-7022
Name: CALHOUN'S DASH OF CAYENNE	

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 Canine Genetic Diversity test results, please visit our website at:
vgl.ucdavis.edu/test/canine-genetic-diversity

For terms and conditions of testing, please see 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

Veterinary Genetics Laboratory · University of California Davis · One Shields Ave · Davis, CA 95616
vgl.ucdavis.edu · (530) 752-2211



GOLDEN RETRIEVER GENETIC HEALTH PANEL TEST REPORT

Provided Information: Name: CALHOUN'S DASH OF CAYENNE Registration: SS37274201		Case: NCD245155 Date Received: 30-Sep-2024 Report Issue Date: 07-Oct-2024 Report ID: 9089-4209-8318-1133
Verify report at vgl.ucdavis.edu/verify		
DOB: 08/31/2022 Sex: Female Breed: Golden Retriever Microchip: 956000014299524 Color: Dark gold		
Call Name: Pepper		
Sire: WILDFIRE DASH O' TABASCO Reg: SR01749906 Microchip:		Dam: GRAPEVINE'S HAVE YOU HEARD THE LATEST Reg: SS10053503 Microchip:

RESULT

INTERPRETATION

Congenital Ichthyosis 1 (Ich1)	N/N	Normal. Dog does not have the variant associated with congenital ichthyosis 1 found in Golden Retrievers.
Congenital Ichthyosis 2 (Ich2)	N/N	Normal. Dog does not have the variant associated with congenital ichthyosis 2 found in Golden Retrievers.
Congenital Myasthenic Syndrome (CMS)	N/N	Normal. Dog does not have the variant associated with congenital myasthenic syndrome found in Golden Retrievers.
Degenerative Myelopathy (DM)	N/N	No copies of the DM mutation.
Neuronal Ceroid Lipofuscinosis (NCL)	N/N	Normal. Dog does not have the variant associated with neuronal ceroid lipofuscinosis found in Golden Retrievers.
Progressive Retinal Atrophy (PRA1)	N/N	Normal. Dog does not have the variant associated with PRA1 found in Golden Retrievers.
Progressive Retinal Atrophy (PRA2)	N/N	Normal. Dog does not have the variant associated with PRA2 found in Golden Retrievers.
Progressive Rod-Cone Degeneration (PRCD)	N/N	Normal. No copies of this progressive rod-cone degeneration (PRA-prcd) allele detected.
Sensory Ataxic Neuropathy (SAN)	N/N	Normal. Dog does not have the variant associated with sensory ataxic neuropathy found in Golden Retrievers.

GOLDEN RETRIEVER GENETIC HEALTH PANEL TEST REPORT

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Name: CALHOUN'S DASH OF CAYENNE	

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 Golden Retriever Genetic Health Panel test results, please visit our website at:
vgl.ucdavis.edu/panel/golden-retriever-health-panel

For terms and conditions of testing, please see 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).

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Degenerative Myelopathy

Degenerative Myelopathy is associated with a genetic variant in the *SOD1* gene (c.118G>A). We therefore denote this associated allele as DM on our reports.

Many dog breeds carry the SOD1 allele associated with Degenerative Myelopathy. The following breeds have been reported as having **clinically-affected** individuals with two copies of the *SOD1* associated variant (denoted on our report as **DM/DM**): American Eskimo Dog, Australian Shepherd, Bernese Mountain Dog, Bloodhound, Borzoi, Boxer, Cardigan Welsh Corgi, Cavalier King Charles Spaniel, Chesapeake Bay Retriever, Czech Wolfdog, English Springer Spaniel, German Shepherd, Golden Retriever, Hovawart, Kerry Blue Terrier, Labrador Retriever, Pembroke Welsh Corgi, Pug, Rhodesian Ridgeback, Rough Collie, Soft Coated Wheaten Terrier, Standard Poodle, and Wire Fox Terrier. Testing is advisable for these breeds.

There have also been reports of crossbred dogs with two copies of the SOD1 allele that were clinically affected by degenerative myelopathy.

What do the results mean for my dog?

Within clinically-affected breeds, dogs with two copies of DM (**DM/DM**) are considered at higher risk for developing clinical signs of DM. However, not all dogs that are DM/DM will develop clinical signs of disease, and not all cases of degenerative myelopathy are explained by the DM/DM result.

Why some DM/DM dogs display symptoms of disease and others do not, is not yet known, but one hypothesis is that there are other genetic modifiers that contribute to risk. This is still under investigation.

Dogs with one copy of DM (**N/DM**) are not expected to develop clinical signs of degenerative myelopathy. They are considered carriers, because they carry the allele associated with disease.

Please note that there may be other causes for degenerative myelopathy in the dog that are not explained by the *SOD1* variant (c.118G>A) tested by the VGL.

What about breeding my dog?

Dogs with a DM/DM genotype will pass on the DM allele to all of their offspring.

Dogs with an N/DM genotype may pass on the DM allele to ~50% of their offspring. If bred to another N/DM dog, 25% of puppies will be expected to have a DM/DM genotype and be at increased risk for developing DM.

For more detailed information about DM, visit <https://vgl.ucdavis.edu/test/degenerative-myelopathy>