



Orivet

Genetic Comprehensive Report

Animal Name: Destiny

Owner:

Kimberly Horn

Membership Number : 9089380176

Member Body/Breed Club: Rocky Creek Labradors

Approved Collection Method: Yes



orivet.com

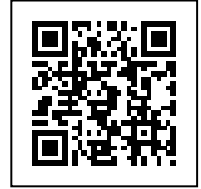
Accredited and Compliant with



Members of



Harmonization of
Genetic Testing
for Dogs



Scan to authenticate
this Report online

Owner's details

Name: Kimberly Horn

Animal's Details

Registered Name : Rockycreek & WillOMoor Stone Of Destiny

Pet Name : Destiny

Registration Number : SS44452907

Breed : Labrador Retriever

Microchip Number : 956000017318797

Sex : Female

Date of Birth : 20th Oct 2023

Colour : Black

Sample Collection Details

Case Number : 23A100376

Collected By : KM07832US

Approved Collection : Yes

Sample Type : SWAB

Test Details

Test Requested : Labrador Retriever - Full Breed Profile

Pet Name : Destiny

Date of Test : 28th Dec 2023

Additional Test : Copper Toxicosis (ATP7B & ATP7A) (Labrador Retriever Type)

Authorisation

Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

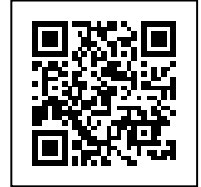
George Sofronidis BSc (Hons)

Dr Noam Pik BVSc, MAVS





Genetic Comprehensive Report



Scan to authenticate this Report online

Animal's Details

Registered Name :	Rockycreek & WillOMoor Stone Of Destiny
Pet Name :	Destiny
Registration Number :	SS44452907
Breed :	Labrador Retriever
Microchip Number :	956000017318797
Sex :	Female
Date of Birth :	20th Oct 2023
Colour :	Black

ISAG Profile 1

Cfam_1:106430955 AA	Cfam_1:119414584	AA	Cfam_1:20842130	Cfam_1:3962719 AG	Cfam_1:70238933	AG	Cfam_1:80971770
(B1CF2S23111132)	(B1CF2P157421)			(B1CF2G630708384)	(B1CF2P554817)		
Cfam_10:10652659 AG	Cfam_10:22409408		Cfam_10:30034450	Cfam_10:66922269 AG	Cfam_11:23907101	AC	Cfam_11:5318488 AG
(B1CF2P237994)				(B1CF2S23049416)	(B1CF2P1308802)		(B1CF2S2338108)
Cfam_11:65603333	Cfam_12:35306641		Cfam_12:55201839	Cfam_12:5579055 AA	Cfam_12:68125319	AG	Cfam_13:59896033 AC
			(B1CF2G630122583)	(B1CF2P382742)	(B1CF2P1344095)		(B1CF2P561057)
Cfam_13:8704192 AG	Cfam_14:50063321	N R	Cfam_14:58465266	Cfam_15:19299365 AG	Cfam_15:22834903	AA	Cfam_16:29634940 AG
(B1CF2P182473)	(B1CF2P624936)		(P24_2)	(B1CF2P105070)	(B1CF2G630437783)		(B1CF2G630111735)
Cfam_16:46884446 AC	Cfam_16:57958947	AA	Cfam_17:10649078	Cfam_17:34462308 AG	Cfam_17:39124697	AA	Cfam_18:54361347 GG
(B1CF2P774003)	(B1CF2P635478)		(B1CF2G630220326)	(B1CF2G630209373)	(B1CF2P998036)	AA	(B1CF2G630689403)
Cfam_18:6745949 AG	Cfam_19:15926130	CC	Cfam_19:27288167	Cfam_19:47470564 AA	Cfam_19:841347	AA	Cfam_2:2610859 GG
(B1CF2S23535154)	(P13_3)		(B1CF2P251850)	(B1CF2S23214514)	(B1CF2S23737033)		(P32_3)
Cfam_2:38293797 AA	Cfam_2:77806065	GG	Cfam_20:13740894	Cfam_20:49900586 AG	Cfam_20:57167714	N R	Cfam_21:15558670 AA
(B1CF2P1159837)	(B1CF2P878175)		(B1CF2S23246455)	(B1CF2P347679)	(P26_1)		(B1CF2G630653298)
Cfam_21:25537675 AA	Cfam_21:35719434	AA	Cfam_22:26694580	Cfam_22:55308193 AG	Cfam_22:641125		Cfam_23:42886681 CC
(B1CF2S23018785)	(B1CF2S23326150)		(B1CF2G630326688)	(B1CF2S23329382)	Cfam_25:2073511	AC	(P34_1)
Cfam_23:50772488 AG	Cfam_24:23393510		Cfam_24:29909901	Cfam_24:47381908 AA		AA	Cfam_25:33986348 GG
(B1CF2P277987)			(T1GRP2P316532_rs8597522)	(B1CF2P990814)	(P15_3)		(B1CF2G630102146)
Cfam_25:47708600 GG	Cfam_26:20004896	AG	Cfam_26:35071515	Cfam_27:22599860 AA	Cfam_27:2619058	AA	Cfam_27:41049333 CC
(B1CF2G630159183)	(B1CF2G630798972)		(B1CF2P1192522)	(B1CF2G630149030)	(B1CF2S236196)		(T1GRP2P356245_rs8830240)
Cfam_28:18509221 AG	Cfam_28:38885325	AA	Cfam_28:9877730	Cfam_29:17561258 AA	Cfam_29:251970	GG	Cfam_29:36319325 AA
(B1CF2G630271966)	(T1GRP2P362535_rs9130694)		(B1CF2G630276039)	(B1CF2S23713161)	Cfam_30:15542105	GG	(B1CF2G630634836)
Cfam_29:9425359 AG	Cfam_3:1252765	AC	Cfam_3:24757939	Cfam_3:73570828	(B1CF2G630409193)	AG	Cfam_30:32852404 AA
(P17_3)	(P27_2)				Cfam_32:32382778	AG	(T1GRP2P372104_rs9153277)
Cfam_30:3896482 AG	Cfam_31:21068798	AG	Cfam_31:39391935	AG	Cfam_32:32382778	AG	Cfam_32:679380 AG
(B1CF2S23124313)	(B1CF2P1454500)		(B1CF2G630200354)	(B1CF2G630594648)	(B1CF2P885380)		(G1425116528)
Cfam_33:15018500 AA	Cfam_33:23742061		Cfam_34:195313	Cfam_34:24396298 AC	Cfam_35:15345329	CC	Cfam_36:12714421 AG
(B1CF2P516667)			(P2_3)		(T1GRP2P407751_rs8803124)		(B1CF2P1226745)
Cfam_36:23459390 AA	Cfam_36:3565500	AA	Cfam_37:15436615	AA	Cfam_37:9398945		Cfam_38:17657161
(B1CF2P935470)	(B1CF2P728698)		(P21_3)	Cfam_37:27667297 AG	AA		
Cfam_38:20441216 AA	Cfam_38:9224942	AC	Cfam_4:31301072	(B1CF2G630133028)	Cfam_4:64121754	GG	Cfam_4:75910211 AG
(B1CF2P600196)	(B1CF2P615597)		(B1CF2P805553)	Cfam_4:64121754			Cfam_4:86049027 AG
Cfam_5:26320165	Cfam_5:5410890	GG	Cfam_5:85451804	GG	Cfam_4:75910211		Cfam_6:64006720 AG
	(B1CF2S23648905)		(B1CF2P1346673)	Cfam_6:11553458	N R		Cfam_6:33976751
Cfam_7:15011628 GG	Cfam_7:36555518	AG	Cfam_7:76294	(P8_1)	GG		Cfam_8:5291824 GG
(B1CF2G630552597)	(B1CF2G630558437)			Cfam_8:18121580	GG		Cfam_8:45852939
Cfam_8:63196958 GG	Cfam_9:22610227			(B1CF2P65087)	AG		Cfam_9:52710991
(B1CF2S23449478)	(B1CF2P1010945)	N R	Cfam_9:40096141	Cfam_9:52710991	AG		Cfam_9:60437147
			(B1CF2P1216677)	(P24_1)		AA	(B1CF2S22943825)

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Colour :	Black

ISAG Profile 2

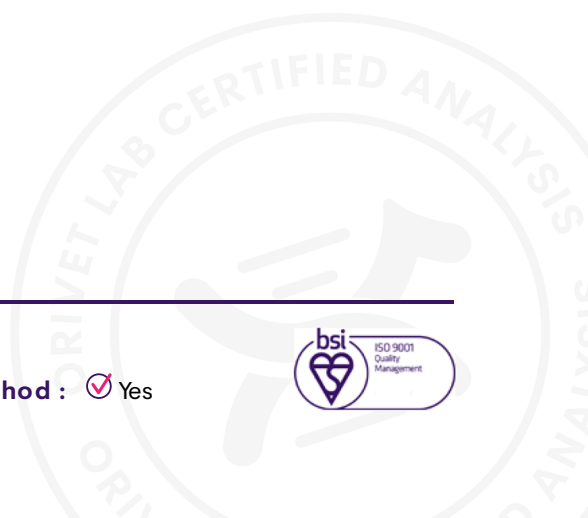
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Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes



Genetic Comprehensive Report

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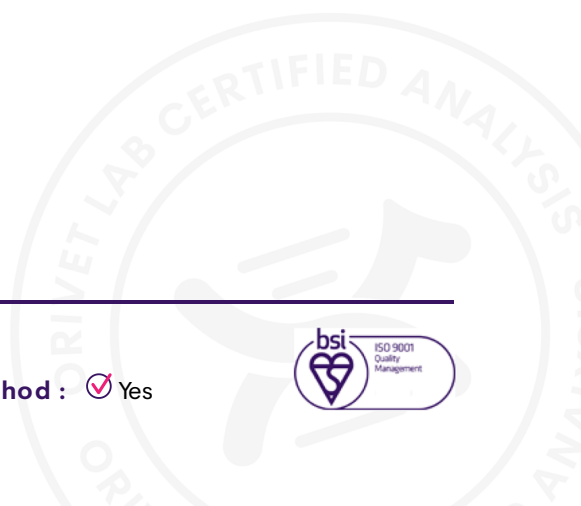
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Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





Scan to authenticate
this Report online

Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : ACHROMATOPSIA (LABRADOR TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : CNGA3

Variant Detected : a missense mutation in exon 7 (c.C1270T/p.R424W)

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : CENTRONUCLEAR MYOPATHY (LABRADOR RETRIEVER TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : 3-hydroxyacyl-CoA dehydratase 1 (HACD1) also known as PTPLA on chromosome 2

Variant Detected : 236 bp SINE repeat insertion in exon 2 of HACD1

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : CONGENITAL MACROTHROMBOCYTOPENIA

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Tubulin beta 1 class VI (TUBB1) on Chromosome 24

Variant Detected : Base Substitutionc.745G>Ap.Asp249Asn

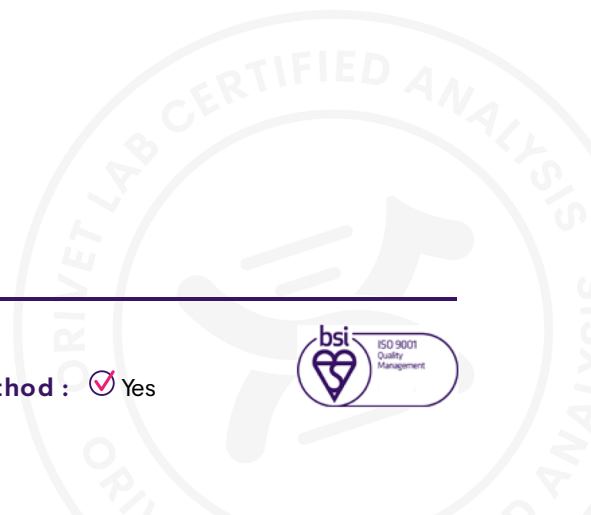
We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

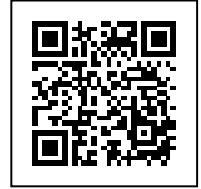
Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





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Genetic Comprehensive Report

Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : CONGENITAL MYASTHENIC SYNDROME (LABRADOR RETRIEVER TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : 2-hydroxyacyl-CoA lyase 1 (COLQ) on chromosome 23

Variant Detected : Base Substitutionc.1010T>Cp.Ile337Thr

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : COPPER TOXICOSIS (ATP7B & ATP7A) (LABRADOR RETRIEVER TYPE)

Result : **INDETERMINABLE ON THE ATP7B VARIANT / NEGATIVE FOR THE ATP7A VARIANT**¹

Gene :

ATPase copper transporting beta (ATP7B) on chromosome 22ATPase copper transporting alpha (ATP7A) on chromosome X

Variant Detected :

Base SubstitutionATP7A: c.980C>TATP7A: p.Thy327IleATP7B: c.4358G>AATP7B: p.Arg1453Gln

There are two mutations, ATP7A:c.980C>T and ATP7B:c.4358G>A are run and reported. The two mutations work differently, ATP7B:c.4358G>A is associated with an increase in hepatic copper levels and ATP7A:c.980C>T is associated with a decrease in hepatic copper levels. The scientific literature suggests that if both mutations are present, the ATP7A attenuates some of the effect of the causative mutation. You can think of this as ATP7B:c.4358G>A being the variant for "at risk" and ATP7A:c.980C>T being the "protective" variant. The effect of the phenotype is that ATP7B is associated with hepatic copper accumulation which induces hepatic cirrhosis usually in middle-aged dogs. The mode of inheritance is complex disease whereby the ATP7B variant leads to increase hepatic copper accumulation over a long period of time which may lead to copper toxicosis.

Test Reported : CYSTINURIA (SLC3A1) LABRADOR RETRIEVER TYPE

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Solute carrier family 3 member 1 (SLC3A1) on chromosome 10

Variant Detected : Nucleotide Deletionc.350delGp.Gly117Alafs*41

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

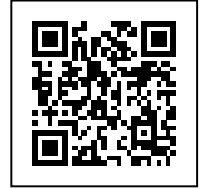
Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





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Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : DEGENERATIVE MYELOPATHY

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Superoxide dismutase 1 (SOD1) on chromosome 31

Variant Detected : Base Substitutionc.118G>Ap.Glu40Lys

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : EHLERS-DANLOS SYNDROME (LABRADOR TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : COL5A1, chr9

Variant Detected : c.3038delGp.Gly1013ValfsTer260

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Spectrin beta erythrocytic (SPTB) Chromosome 8

Variant Detected : Base Substitutionc.6384C>TThr2110Met

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

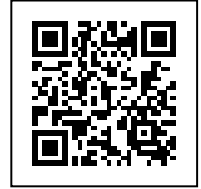
Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





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Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : EXERCISE INDUCED COLLAPSE (RETRIEVER TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : DNM1

Variant Detected : Base Substitution c.767 G>T

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : HEREDITARY NASAL PARAKERATOSIS/DRY NOSE (LABRADOR RETRIEVER TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Suppressor of variegation 3-9 homolog 2 (SUV39H2) on chromosome 2

Variant Detected : Base Substitution c.972T>Gp.Asn324Lys

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : HYPERURICOSURIA

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Solute carrier family 2 member 9 (SLC2A9) on chromosome 3

Variant Detected : Base Substitution c.563G>Tp.Cys188Phe

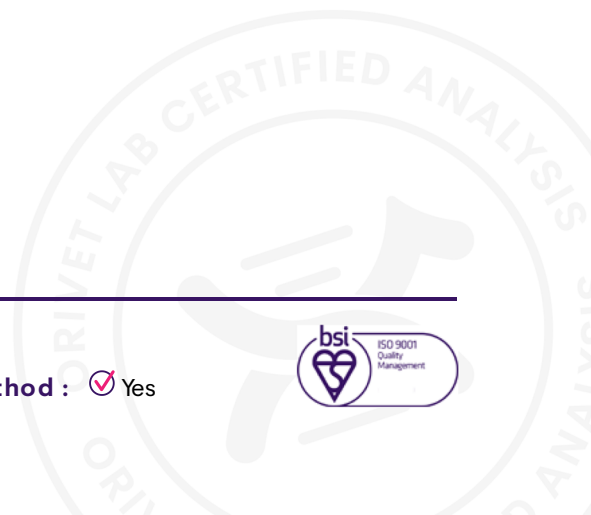
We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





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Genetic Comprehensive Report

Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : MACULAR CORNEAL DYSTROPHY (LABRADOR TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : LOC4

Variant Detected : c.814C>A

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : MALIGNANT HYPERTHERMIA

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Ryanodine receptor 1 (RYR1) on Chromosome 1

Variant Detected : Base Substitutionc.1640T>Cp.Val547Ala

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : MYOTUBULAR MYOPATHY X-LINKED (LABRADOR RETRIEVER TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Myotubularin 1 (MTM1) on Chromosome X

Variant Detected : Base Substitutionc.465C>Ap.Asn155Lys

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

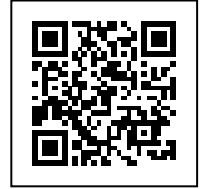
Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





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Genetic Comprehensive Report

Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : NARCOLEPSY (LABRADOR)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Hypocretin receptor 2 (HCRT2) on Chromosome 12

Variant Detected : Base Substitutionc.1105+5G>Asplice site mutation

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : PROGRESSIVE ROD CONE DEGENERATION (PRCD) - PRA

Result : **CARRIER [ONE COPY OF THE VARIANT DETECTED]**¹

Gene : Photoreceptor disc component (PRCD) on Chromosome 9

Variant Detected : Base Substitutionc.5 G>Ap.Cys2Tyr

We have scanned your animal's DNA and one copy of the normal gene and copy of the positive (mutant) gene has been detected. The genotype of the animal tested is CARRIER this result may also be referred to as HETEROZYGOUS or A/N or "+/-". Being an autosomal recessive disease the animal will not exhibit disease symptoms or develop the disease. Consideration needs to be taken if breeding this animal as it may produce affected offspring if mated to another carrier. It is recommended to have any breeding partner tested before breeding.

Test Reported : PYRUVATE KINASE DEFICIENCY (LABRADOR TYPE)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : PKLR

Variant Detected : c.799C>T

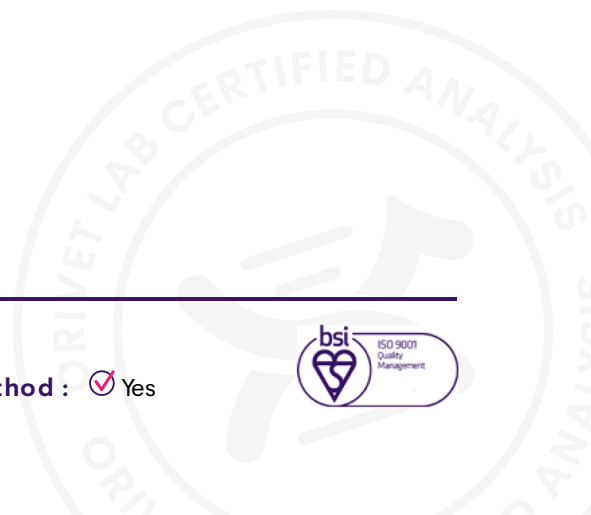
We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

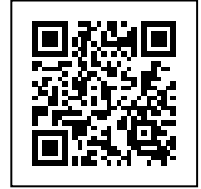
Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





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Genetic Comprehensive Report

Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : SKELETAL DYSPLASIA 2 (MILD DISPROPORTIONATE DWARFISM)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : Collagen alpha-2(XI) chain gene (COL11A2) on chromosome 12

Variant Detected : Base Substitutionc.143G>Cp.Arg48Pro

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : STARGARDT DISEASE (RETINAL DEGENERATION)

Result : **NEGATIVE / CLEAR [NO VARIANT DETECTED]**¹

Gene : ABCA4

Variant Detected : c.4176insC

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant.

Test Reported : E LOCUS - (CREAM/RED/YELLOW)

Result : **E/E - DOMINANT BLACK DOES NOT CARRY YELLOW/RED/WHITE**¹

Gene : MC1R

Variant Detected : Em (point mutation) > E (wild type) > e (point mutation) chr5:63694334-63694334: C>T

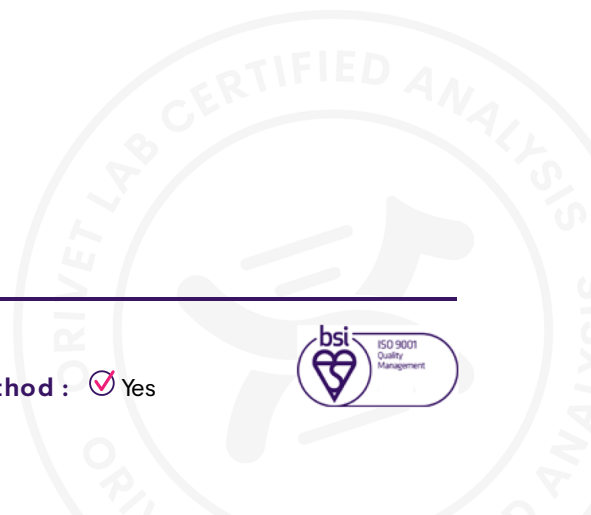
2 copies of black E or "extension". All areas of the coat colour eumelanin will not produce any "e" offspring. The Extension loci is responsible for the majority of non-agouti patterns.

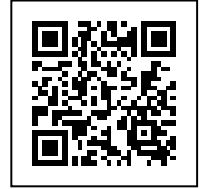
Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





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Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : I PHEOMELANIN LOCUS COLOUR INTENSITY

Result : I/I - NO COPY OF MFSD12 INTENSITY ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)¹

Gene : MFSD12

Variant Detected : c.151C>T (p.Arq51Cys)

This variant is associated with the dilution of phaeomelanin which is involved in the cream/white/apricot color in dogs. Degree of intensity (dilution) will vary within and between breeds.

Test Reported : BROWN DELETION = BD

Result : B^d/B^d - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION]¹

Gene : TYRP1

Variant Detected : Base Substitution (Point Mutation)

Does not carry the brown deletion codon. Please refer to the other brown variants to clarify potential colour for offspring.

Test Reported : BROWN STOP CODON = BS

Result : B^s/b^s - CARRIER OF BROWN/LIVER/RED/CHOCOLATE [STOP CODON]¹

Gene : TYRP1

Variant Detected : Point Mutation

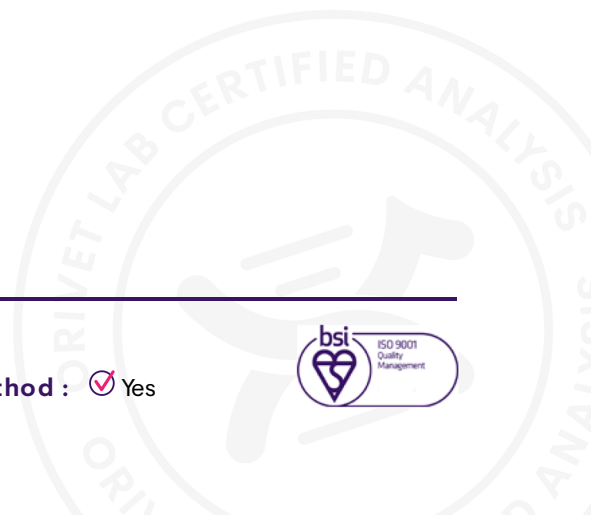
One copy of brown stop codon SNP present – carrier. Can produce brown/chocolate/liver pups if mated with another carrier. Please note this could be a "compound heterozygote" and thus be brown/chocolate. Refer to the other 2 chocolate SNPs to confirm.

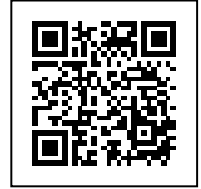
Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





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Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : BROWN INSERTION = BC

Result : **B^c/B^c - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [INSERTION]**¹

Gene : TYRP1

Variant Detected : Base Substitution (Point Mutation)

Does not carry the brown insertion codon. Please refer to the other brown variants to clarify potential colour for offspring.

Test Reported : BROWN TYRP1 [LANCASHIRE HEELER TYPE] = BL

Result : **B^L/B^L - DOES NOT CARRY BROWN/LIVER [TYRP1]**¹

Gene :

Variant Detected :

Test Reported : D (DILUTE) LOCUS

Result : **D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL**¹

Gene : MLPH

Variant Detected : Base Substitution

Full colour, no dilute gene present. The D allele modifies the Melanophillin (MLPH) gene. This animal cannot produce "dilute" offspring. Please Note: There are other dilute variants d2 (Sloughi, Chow Chow & Thai Ridgeback) and rare d3 (Italian Greyhound & Chihuahua) so this test/result may not identify dilute in these breeds.

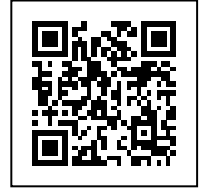
Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





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Genetic Comprehensive Report

Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : DILUTE D2 VARIANT (CHOW CHOW TYPE)

Result : d^2/d^2 - NO COPY OF d^2 ALLELE (DILUTE) - PIGMENT IS NORMAL¹

Gene : MLPH

Variant Detected : c.705G>C

This d^2 variant has been shown to be associated with the blue/dilute seen in the Chow Chow, Sloughi, Thai Ridgeback and any mixes of these breeds.

Test Reported : K LOCUS (DOMINANT BLACK)

Result : K/K - DOMINANT BLACK - SOLID [WILL NOT BE BRINDLED or EXPRESS AGOUTI]¹

Gene : CBD103

Variant Detected : Deletion of GGG

Two copies of dominant black (K) are present. No brindle/red or fawn offspring will be produced. Will not express Agouti phenotype. This can also be referred to as KB. In some breeds the K locus is fixed so all dogs will be KK. This (the K Locus) can be modified by other genes eg. liver, dilute, greying or merle. Red can only be added through the e locus.

Test Reported : A LOCUS (FAWN/SABLE; TRI/TAN POINTS)

Result : a^t/a^t - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]¹

Gene : ASIP

Variant Detected : Base Substitution 246 G>T(A82S); G>A (R83H): C>T (p.R96C)

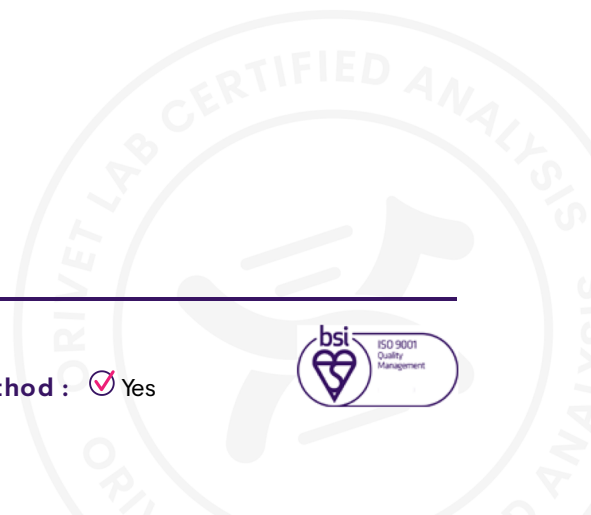
Homozygous for black and tan/tricolour (no hidden colours) allele. Tri factored/white factored in dogs that have white points. No Bi Factoring (Black White & Tan). Animals are primarily black and have areas of pheomelanin (tan) which tends to be seen on the leg and stomach areas, the side of the head and spots above the eyes. Please note the colour and distribution of pheomelanin "tan" will be dependent on the breed and other colour genes. Please note that any genes on the "A" series will only be expressed if the K locus is kk, kibr or kibrkibr.

Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes





Genetic Comprehensive Report



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Sample with Lab ID Number 23A100376 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : LONG HAIR GENE (CANINE C95F)

Result : **NEGATIVE - NOT SHOWING THE PHENOTYPE**¹

Gene : FGF5

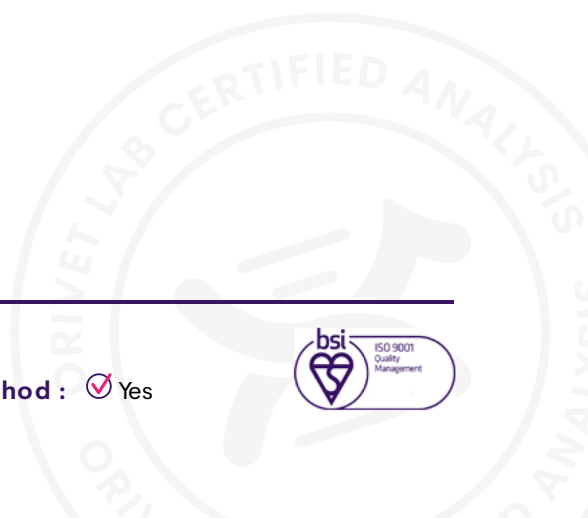
Variant Detected : p.Cys95Phe c284G>T (Point Mutation)

Owner's Name : Kimberly Horn

Pet Name : Destiny

Microchip Number 956000017318797

Approved Collection Method : Yes



Glossary of Genetic Terms (Results)



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NEGATIVE / CLEAR [NO VARIANT DETECTED]

No presence of the variant (mutation) has been detected. The animal is clear of the disease and will not pass on any disease-causing mutation.

CARRIER [ONE COPY OF THE VARIANT DETECTED]

This is also referred to as HETEROZYGOUS. One copy of the normal gene and copy of the affected (mutant) gene has been detected. The animal will not exhibit disease symptoms or develop the disease. Consideration needs to be taken if breeding this animal - if breeding with another carrier or affected or unknown then it may produce an affected offspring.

POSITIVE / AT RISK [TWO COPIES OF THE VARIANT DETECTED]

Two copies of the disease gene variant (mutation) have been detected also referred to as HOMOZYGOUS for the variant. The animal may show symptoms (affected) associated with the disease. Appropriate treatment should be pursued by consulting a Veterinarian.

POSITIVE HETEROZYGOUS [ONE COPY OF THE DOMINANT VARIANT DETECTED]

Also referred to as POSITIVE ONE COPY or POSITIVE HETEROZYGOUS. This result is associated with a disease that has a dominant mode of inheritance. One copy of the normal gene (wild type) and affected (mutant) gene is present. Appropriate treatment should be pursued by consulting a Veterinarian. This result can still be used to produce a clear offspring.

NORMAL BY PARENTAGE HISTORY

The sample submitted has had its parentage verified by DNA. By interrogating the DNA profiles of the Dam, Sire and Offspring this information together with the history submitted for the parents excludes this animal from having this disease. The controls run confirm that the dog is NORMAL for the disease requested.

NORMAL BY PEDIGREE

The sample submitted has had its parentage verified by Pedigree. The pedigree has been provided and details (genetic testing reports) of the parents have been included. Parentage could not be determined via DNA profile as no sample was submitted.

NO RESULTS AVAILABLE

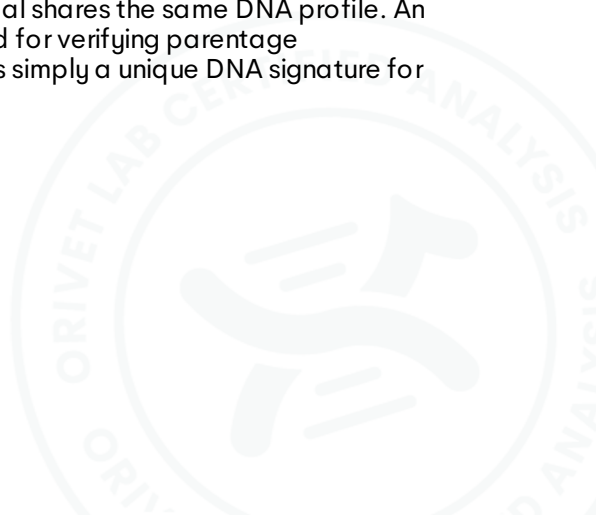
Insufficient information has been provided to provide a result for this test. Sire and Dam information and/or sample may be required. This result is mostly associated with tests that have a patent/license and therefore certain restrictions apply. Please contact the laboratory to discuss.

INDETERMINABLE

The sample submitted has failed to give a conclusive result. This result is mainly due to the sample failing to "cluster" or result in the current grouping. A recollection is required at no charge.

DNA PROFILE

Also known as a DNA fingerprint. This is unique for the animal. No animal shares the same DNA profile. An individual's DNA profile is inherited from both parents and can be used for verifying parentage (pedigrees). This profile contains no disease or trait information and is simply a unique DNA signature for that animal.



Glossary of Genetic Terms (Results)



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PARENTAGE VERIFICATION/ QUALIFIES/CONFIRMED OR DOES NOT QUALIFY/EXCLUDED

Parentage is determined by examining the markers on the DNA profile. A result is generated and stated for all DNA parentage requests. Parentage confirmation reports can only be generated if a DNA profile has been carried out for Dam, Offspring and possible Sire/s.

PENDING

PENDING

TRAIT (PHENOTYPE)

A feature that an animal is born with (a genetically determined characteristic). Traits are a visual phenotype that range from colour to hair length, and also includes certain features such as tail length. If an individual is **AFFECTED** for a trait then it will show that characteristic eg. **AFFECTED** for the B (Brown) Locus or bb will be brown/chocolate.

POSITIVE – SHOWING THE PHENOTYPE

The animal is showing the trait or phenotype tested.

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 and we will be happy to work with you to answer any relevant questions.

