Orivet

Genetic Comprehensive Report

Animal Name: Kairi

Owner:
Amanda Broderick
Membership Number : Not assigned
Member Body/Breed Club: Not assigned

Approved Collection Method: No

Orivet

Genetic Comprehensive Report

Scan to authenticate this Report online

Owner's details

Name:	Amanda Broderick

Animal's Details

Registered Name :	Broderick's Wielder Of The Key
Pet Name :	Kairi
Registration Number :	PAL283927
Breed :	Golden Retriever
Microchip Number :	985113005993791
Sex :	Spayed Female
Date of Birth :	21st Feb 2022
Colour :	Gold

Sample Collection Details

Case Number :	24A107216
Collected By :	
Approved Collection :	No
Sample Type :	SWAB

Test Details

Test Requested :	Golden Retriever – Full Breed Profile
Pet Name :	Kairi
Date of Test :	11th Jul 2024

Authorisation

Sample with Lab ID Number 24A107216 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

.....

George Sofronidis BSc (Hons)

.....

Dr Noam Pik BVSc, MAVS

Orivet

Genetic Comprehensive Report

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Animal's Details

Registered Name :	**Broderick's Wielder Of The Key**
Pet Name :	**Kairi**
Registration Number :	**PAL283927**
Breed :	**Golden Retriever**
Microchip Number :	**985113005993791**
Sex :	**Spayed Female**
Date of Birth :	**21st Feb 2022**
Colour :	**Gold**

ISAG Profile 1

Cfam_1:106430955	A G	Cfam_1:119414584	A G	Cfam_1:20842130		Cfam_1:3962719	G G	Cfam_1:70238933	A A	Cfam_1:80971770	
(BICF2S23111132)		(BICF2P157421)				(BICF2G630708384)		(BICF2P554817)			
Cfam_10:10652659	G G	Cfam_10:22409408		Cfam_10:30034450		Cfam_10:66922269	A A	Cfam_11:23907101	A C	Cfam_11:5318488	A G
(BICF2P237994)						(BICF2S23049416)		(BICF2P1308802)		(BICF2S2338108)	
Cfam_11:65603333		Cfam_12:35306641		Cfam_12:55201839	A A	Cfam_12:5579055	A A	Cfam_12:68125319	A G	Cfam_13:59896033	A A
				(BICF2G630122583)		(BICF2P382742)		(BICF2P1344095)		(BICF2P561057)	
Cfam_13:8704192	G G	Cfam_14:50063321	A A	Cfam_14:58465266	G G	Cfam_15:19299365	A A	Cfam_15:22834903	A C	Cfam_16:29634940	G G
(BICF2P182473)		(BICF2P624936)		(P24_2)		(BICF2P105070)		(BICF2G630437783)		(BICF2G630111735)	
Cfam_16:46884446	A A	Cfam_16:57958947	A A	Cfam_17:10649078	A G	Cfam_17:34462308	G G	Cfam_17:39124697	A A	Cfam_18:54361347	A A
(BICF2P774003)		(BICF2P635478)		(BICF2G630220326)		(BICF2G630209373)		(BICF2P998036)		(BICF2G630689403)	
Cfam_18:6745949	A A	Cfam_19:15926130	A C	Cfam_19:27288167	A C	Cfam_19:47470564	A A	Cfam_19:841347	A G	Cfam_2:2610859	A G
(BICF2S23535154)		(P13_3)		(BICF2P251850)		(BICF2S23214514)		(BICF2S23737033)		(P32_3)	
Cfam_2:38293797	A A	Cfam_2:77806065	A G	Cfam_20:13740894	A A	Cfam_20:49900586	A A	Cfam_20:57167714	A G	Cfam_21:15558670	A A
(BICF2P1159837)		(BICF2P878175)		(BICF2S23246455)		(BICF2P347679)		(P26_1)		(BICF2G630653298)	
Cfam_21:25537675	A G	Cfam_21:35719434	A A	Cfam_22:26694580	A A	Cfam_22:55308193	C C	Cfam_22:641125		Cfam_23:42886681	A A
(BICF2S23018785)		(BICF2S23326150)		(BICF2G630326688)		(BICF2S23329382)				(P34_1)	
Cfam_23:50772488	G G	Cfam_24:23393510		Cfam_24:29909901	A A	Cfam_24:47381908	N R	Cfam_25:2073511	A C	Cfam_25:33986348	A A
(BICF2P277987)				(TIGRP2P316532_rs8597522)		(BICF2P990814)		(P15_3)		(BICF2G630102146)	
Cfam_25:47708600	A A	Cfam_26:20004896	A A	Cfam_26:35071515	G G	Cfam_27:22599860	G G	Cfam_27:2619058	A G	Cfam_27:41049333	A C
(BICF2G630159183)		(BICF2G630798972)		(BICF2P1192522)		(BICF2G630149030)		(BICF2S236196)		(TIGRP2P356245_rs8830240)	
Cfam_28:18509221	G G	Cfam_28:38885325	A A	Cfam_28:9877730	A G	Cfam_29:17561258	G G	Cfam_29:251970		Cfam_29:36319325	C C
(BICF2G630271966)		(TIGRP2P362535_rs9130694)		(BICF2G630276039)		(BICF2S23713161)				(BICF2G630634836)	
Cfam_29:9625359	A A	Cfam_3:1252765	A C	Cfam_3:24757939		Cfam_3:73570828		Cfam_30:15542105	A G	Cfam_30:32852404	A G
(P17_3)		(P27_2)						(BICF2G630409193)		(TIGRP2P372104_rs9153277)	
Cfam_30:3896482	A A	Cfam_31:21068798	A A	Cfam_31:39391935	A G	Cfam_32:17792284	A G	Cfam_32:32382778	A G	Cfam_32:679380	A G
(BICF2S23124313)		(BICF2P1454500)		(BICF2G630200354)		(BICF2G630594648)		(BICF2P885380)		(G1425f16S28)	
Cfam_33:15018500	G G	Cfam_33:23742061		Cfam_34:195313	C C	Cfam_34:24396298		Cfam_35:15345329	C C	Cfam_36:12714421	G G
(BICF2P516667)				(P2_3)				(TIGRP2P407751_rs8803124)		(BICF2P1226745)	
Cfam_36:23459390	G G	Cfam_36:3565500	A A	Cfam_37:15436615	A G	Cfam_37:27667297	G G	Cfam_37:9398945		Cfam_38:17657161	
(BICF2P935470)		(BICF2P728698)		(P21_3)		(BICF2G630133028)					
Cfam_38:20441216	G G	Cfam_38:9224942	A A	Cfam_4:31301072	A A	Cfam_4:64121754		Cfam_4:75910211	G G	Cfam_4:86049027	G G
(BICF2P600196)		(BICF2P615597)		(BICF2P805553)				(BICF2P1357746)		(BICF2S23126079)	
Cfam_5:26320165		Cfam_5:5410890	G G	Cfam_5:85451804	A G	Cfam_6:11553458	A G	Cfam_6:33976751		Cfam_6:64006720	
		(BICF2S23648905)		(BICF2P1346673)		(P8_1)					
Cfam_7:15011628	A G	Cfam_7:36555518	A G	Cfam_7:76294		Cfam_8:18121580	A A	Cfam_8:45852939		Cfam_8:5291824	A G
(BICF2G630552597)		(BICF2G630558437)				(BICF2P65087)				(P23_3)	
Cfam_8:63196958	G G	Cfam_9:22610227	A A	Cfam_9:40096141	A G	Cfam_9:52710991	A A	Cfam_9:60437147	A G		
(BICF2S23449478)		(BICF2P1010945)		(BICF2P1216677)		(P24_1)		(BICF2S22943825)			

Owner's Name : Amanda Broderick

Pet Name : Kairi

Microchip Number 985113005993791

Approved Collection Method : No

Genetic Comprehensive Report

Animal's Details

Registered Name :	**Broderick's Wielder Of The Key**
Pet Name :	**Kairi**
Registration Number :	**PAL283927**
Breed :	**Golden Retriever**
Microchip Number :	**985113005993791**
Sex :	**Spayed Female**
Date of Birth :	**21st Feb 2022**
Colour :	**Gold**

ISAG Profile 2

Cfam_1:119306331	A G	Cfam_1:72613047	A G	Cfam_1:74450772		Cfam_10:14685262	G G	Cfam_10:39548483	A G	Cfam_10:47923623				
(BICF2P635172)		(P1_2)				(BICF2G630666362)		(BICF2G630488267)						
Cfam_10:57954366	A A	Cfam_10:8085469		Cfam_11:1161870		Cfam_11:62157625	G G	Cfam_11:70698603	A C	Cfam_12:23059939	G G			
(BICF2P963969)						(BICF2G630306265)		(BICF2G630307199)		(BICF2P465276)				
Cfam_12:40681020	G G	Cfam_12:6337286	A A	Cfam_12:70657733	A A	Cfam_12:8532712	A A	Cfam_13:40616856	A A	Cfam_14:55735620	G G			
(TIGRP2P164720_rs8839809)		(BICF2P1193353)		(BICF2P1183665)		(BICF2P496466)		(BICF2P651575)		(BICF2P1369088)				
Cfam_16:29675662	C C	Cfam_16:58093031	A A	Cfam_17:12787849		Cfam_17:57371669	G G	Cfam_17:9407683	G G	Cfam_18:10189759	G G			
(BICF2S23250041)		(P24_3)				(BICF2S2351979)		(BICF2G630221287)		(BICF2P46604)				
Cfam_18:16385020	G G	Cfam_18:16388978	C C	Cfam_18:31579269	A G	Cfam_18:47325586	A A	Cfam_19:30246414	A G	Cfam_19:40189405	C C			
(BICF2S23529290)		(BICF2P250787)		(BICF2P184963)		(TIGRP2P255960_rs9030578)		(P25_2)		(BICF2P1310805)				
Cfam_19:42756283	A G	Cfam_20:45777531	A G	Cfam_20:48602465	G G	Cfam_20:6046176	A A	Cfam_21:22581321		Cfam_21:29796784	G G			
(BICF2P401677)		(BICF2P345488)		(BICF2P840653)		(BICF2S22910736)				(TIGRP2P283310_rs8881748)				
Cfam_21:31751817	A G	Cfam_22:20498421		Cfam_22:33934047	A A	Cfam_22:37522364	A A	Cfam_22:39647748	G G	Cfam_22:61153661	G G			
(BICF2P42825)				(BICF2G630328323)		(BICF2P345056)		(BICF2S23519644)		(P26_3)				
Cfam_23:44497217		Cfam_23:48055836	A C	Cfam_24:18599997	G G	Cfam_24:27925354		Cfam_24:30954773	G G	Cfam_24:43589304	A A			
		(BICF2G630365778)		(BICF2G630504410)				(BICF2G630499189)		(BICF2S23138418)				
Cfam_24:45191477	G G	Cfam_25:4614777	G G	Cfam_27:20948372	A A	Cfam_27:34444177	A A	Cfam_27:42526114	A G	Cfam_28:12804225	A G			
(P15_2)		(BICF2P1362405)		(BICF2S2359809)		(TIGRP2P354499_rs9162547)		(BICF2S22913753)		(BICF2G630274628)				
Cfam_28:34478533	A A	Cfam_28:35104850	A G	Cfam_28:9703418	G G	Cfam_29:19681270		Cfam_29:22992304	A A	Cfam_29:4020192	G G			
(BICF2G630264994)		(BICF2P1226838)		(BICF2G630276136)				(BICF2P950116)		(BICF2P464536)				
Cfam_29:4022252	A A	Cfam_3:10255068	G G	Cfam_3:37849557	A G	Cfam_3:43055696	A G	Cfam_3:43063677	A G	Cfam_3:64084413	A A			
(BICF2S22912385)		(BICF2S2399705)		(BICF2P643134)		(BICF2G630340940)		(BICF2G630340944)		(P4_3)				
Cfam_3:90291255	A G	Cfam_3:91626907		Cfam_30:10012939		Cfam_30:11735245	A G	Cfam_30:27619023	A G	Cfam_31:20912553				
(BICF2P285489)						(BICF2P103615)		(BICF2S22926284)						
Cfam_32:13183511	A G	Cfam_33:15233992	G G	Cfam_33:22070526	G G	Cfam_33:22472901	C C	Cfam_33:22648231	A G	Cfam_34:24351570	G G			
(BICF2P1019402)		(BICF2S23356653)		(BICF2G63078341)		(BICF2P378969)		(TIGRP2P389035_rs9038546)		(BICF2S23649947)				
Cfam_34:34993916		Cfam_34:37323213	G G	Cfam_34:41703614		Cfam_35:15283717	A A	Cfam_36:10084888	A G	Cfam_36:12723744	C C			
		(BICF2P590440)				(BICF2S23429022)		(BICF2P129670)		(BICF2P70891)				
Cfam_36:18627936		Cfam_36:288045	G G	Cfam_36:9241262		Cfam_37:18338930		Cfam_37:26611359	G G	Cfam_37:28611801	A G			
		(P6_2)						(BICF2P129347)		(BICF2G630133994)				
Cfam_37:30110473		Cfam_37:30902202		Cfam_38:13098194		Cfam_38:15271384	A G	Cfam_38:19172567	A C	Cfam_38:20930997	A A			
						(BICF2S22928800)		(BICF2S23031254)		(BICF2S23614068)				
Cfam_4:42104780	A G	Cfam_4:67040898		Cfam_4:70217695		Cfam_5:13080303		Cfam_5:36642434		Cfam_5:44650576	A A			
(BICF2P1286728)										(BICF2G630187658)				
Cfam_5:55349573	A G	Cfam_5:64611038	G G	Cfam_7:15017979	A G	Cfam_7:3318809	G G	Cfam_7:6423299		Cfam_7:76487265	A G			
(BICF2P496837)		(BICF2P414351)		(BICF2G630552598)		(BICF2P1173491)				(BICF2P798404)				
Cfam_8:19076567	A G	Cfam_8:24614720	G G	Cfam_8:52381322		Cfam_8:6188937	A G	Cfam_8:67183794	A A	Cfam_9:20867959				
(BICF2P1391407)		(BICF2P1141966)				(TIGRP2P116826_rs8741680)		(BICF2P789367)						
Cfam_9:32506288		Cfam_9:50114927		Cfam_9:56021221	G G									
				(BICF2G630474528)										

Owner's Name : Amanda Broderick **Pet Name :** Kairi

Microchip Number 985113005993791 **Approved Collection Method :** No

Genetic Comprehensive Report

Animal's Details

Registered Name :	**Broderick's Wielder Of The Key**
Pet Name :	**Kairi**
Registration Number :	**PAL283927**
Breed :	**Golden Retriever**
Microchip Number :	**985113005993791**
Sex :	**Spayed Female**
Date of Birth :	**21st Feb 2022**
Colour :	**Gold**

DNA Profile

BICF2P347679	A A BICF2P378969	C C BICF2P382742	A A BICF2P415783	G G BICF2P422152	G G BICF2P508740	G G
(BICF2P347679) BICF2P516667	G G BICF2P553317	G G BICF2P554817	A A BICF2P561057	A A BICF2P585943	G G BICF2P624936	A A
(BICF2P516667) BICF2P635172	A G BICF2P65087	A A BICF2P651576	G G BICF2P717226	A A BICF2P751654	A G BICF2P774003	A A
(BICF2P635172) BICF2P798404	A G BICF2P842510	G G BICF2P856893	A G BICF2P878175	A G BICF2P935470	G G BICF2S22910736	A A
(BICF2P798404) BICF2S22913753	A G BICF2S22928800	A G BICF2S22943825	A G BICF2S23028732	T T BICF2S23031254	A C BICF2S23049416	A A
(BICF2S22913753) BICF2S23057560	A A BICF2S23124313	A A BICF2S23126079	G G BICF2S23246455	A A BICF2S23250041	C C BICF2S23333411	A A
(BICF2S23057560) BICF2S23356653	G G BICF2S23429022	A A BICF2S23449478	G G BICF2S23519644	G G BICF2S2351979	G G BICF2S2359809	A A
(BICF2S23356653) BICF2S236196	A G BICF2S23626625	C G BICF2S23648905	G G BICF2S23649947	G G BICF2S23713161	G G BICF2S23737033	A G
(BICF2S236196) BICF2S24511913	G G TIGRP2P106843_rs8858816	G G TIGRP2P116826_rs8741680	A G TIGRP2P164720_rs8839809	G G TIGRP2P177606_rs8886563	C C TIGRP2P215708_rs8686029	A T
(BICF2S24511913) TIGRP2P316532_rs8597522	A A TIGRP2P372104_rs9153277	A G TIGRP2P402042_rs9121006	A G TIGRP2P406551_rs9235397	A A TIGRP2P407751_rs8803124	C C BICF2G630271966	G G
(TIGRP2P316532_rs8597522) BICF2G630102146	A A BICF2G630149581	A G BICF2G630187649	T T BICF2G630187658	A A BICF2G630209373	G G BICF2G630209508	A G
(BICF2G630102146) BICF2G630255439	G G BICF2G630274628	A G BICF2G630307199	A C BICF2G630340940	A G BICF2G630340944	A G BICF2G630365778	A C
(BICF2G630255439) BICF2G630382763	G G BICF2G630437783	A C BICF2G630449851	A G BICF2G630467607	C C BICF2G630488267	A G BICF2G630504410	G G
(BICF2G630382763) BICF2G630552598	A G BICF2G630558437	A G BICF2G630594648	A G BICF2G630634836	C C BICF2G630641678	A G BICF2G630689403	A A
(BICF2G630552598) BICF2G630798972	A A BICF2G630814422	A C BICF2G63090019	A T BICF2P1019402	A G BICF2P103615	A G BICF2P1104630	G G
(BICF2G630798972) BICF2P1141966	G G BICF2P1173491	G G BICF2P1183665	A A BICF2P1193353	A A BICF2P1216677	A G BICF2P1226838	A G
(BICF2P1141966) BICF2P1232055	G G BICF2P1271174	A A BICF2P129347	G G BICF2P129670	A G BICF2P1308802	A C BICF2P1310805	C C
(BICF2P1232055) BICF2P1344095	A G BICF2P1346673	A G BICF2P1357746	G G BICF2P1454500	A A BICF2P155421	A C BICF2P157421	A G
(BICF2P1344095) BICF2P182473	G G BICF2P224656	C C BICF2P237994	G G BICF2P246592	A A BICF2P250787	C C BICF2P25730	T T
(BICF2P182473) BICF2P283440	G G BICF2P285489	A G BICF2P345056	A A BICF2G630159183	A A BICF2G630170631	A A BICF2G630646431	G G
(BICF2P283440) BICF2P1060087	A G BICF2P643134	A G BICF2P990814	N R			
(BICF2P1060087)	(BICF2P643134)	(BICF2P990814)				

Owner's Name : Amanda Broderick **Pet Name :** Kairi

Microchip Number 985113005993791 **Approved Collection Method :** No

Orivet

Genetic Comprehensive Report

Scan to authenticate this Report online

Sample with Lab ID Number 24A107216 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : CONGENITAL EYE MALFORMATION (GOLDEN RETRIEVER)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : SIX6, chr8
Variant Detected : c.487C>Tp.Gln163*

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 : 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 : DYSTROPHIC EPIDERMOLYSIS BULLOSA (GOLDEN RETRIEVER TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Collagen type VII alpha 1 chain (COL7A1) Chromosome 20
Variant Detected : Base Substitutionc.5797G>Ap.Gly1906Ser

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 : Amanda Broderick
Pet Name : Kairi
Microchip Number 985113005993791
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

Scan to authenticate this Report online

Sample with Lab ID Number 24A107216 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : GENERALISED PRA 1 (GOLDEN RETRIEVER TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Solute carrier family 4 member 3 (SLC4A3) on chromosome 37
Variant Detected : C.2601-2602 Insertion Cp.Glu868Arg-frameshiftX104

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 : GENERALISED PRA 2 (GOLDEN RETRIEVER TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Tetratricopeptide repeat domain 8 (TTC8) on chromosome 8
Variant Detected : c.669delAp.Lys223Arg-frameshiftX15

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 : ICHTHYOSIS (GOLDEN RETRIEVER TYPE 2)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : ABHD5
Variant Detected : chr23:2274932-2274945 (canFam4): 14 bp deletion (GACTTCAACCAGAA)

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 : Amanda Broderick **Pet Name :** Kairi

Microchip Number 985113005993791 **Approved Collection Method :** No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A107216 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : ICHTHYOSIS A (GOLDEN RETRIEVER)
Result : CARRIER [ONE COPY OF THE VARIANT DETECTED][1]
Gene : Patatin like phospholipase domain containing 1 (PNPLA1) on Chromosome 12
Variant Detected :
Nucleotide Insertion and Nucleotide Deletionc.1445-1447delACC and c.1447insTACTACTAp.Asn482Ilefs9X

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 : NEURONAL CEROID LIPOFUSCINOSIS NCL (GOLDEN RETRIEVER TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : CLN5 intracellular trafficking protein (CLN5) on Chromosome 22
Variant Detected : Nucleotide Deletionc.934_935delAGp.E312Vfs*6

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 : OSTEOGENESIS IMPERFECTA (GOLDEN RETRIEVER TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Collagen type I alpha 1 chain (COL1A1) Chromosome 9
Variant Detected : Base Substitutionc.1276G>Cp.Gly381Ala

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 : Amanda Broderick
Pet Name : Kairi
Microchip Number 985113005993791
Approved Collection Method : No

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Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A107216 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : PROGRESSIVE ROD CONE DEGENERATION (PRCD) - PRA
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Photoreceptor disc component (PRCD) on Chromosome 9
Variant Detected : Base Substitutionc.5 G>Ap.Cys2Tyr

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 : 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 : VON WILLEBRAND'S DISEASE TYPE I
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : VWF
Variant Detected : c.7437G>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.

Owner's Name : Amanda Broderick
Pet Name : Kairi
Microchip Number 985113005993791
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A107216 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : E LOCUS - (CREAM/RED/YELLOW)
Result : e/e - HOMOZYGOUS FOR NON-EXTENSION [WHITE/YELLOW/APRICOT/WHEATEN][1]
Gene : MC1R
Variant Detected : Em (point mutation) > E (wild type) > e (point mutation) chr5:63694334-63694334: C>T

2 copies of red/yellow are present referred to as "non-extension". Dog's coat is entirely phaeomelanin based ie. red/yellow/cream/apricot/white/wheaten. Please note in some breeds an "ee" phenotype can often Colours can be cream to white rather than yellow to red. Shades can vary between littermates.

Test Reported : EM (MC1R) LOCUS - MELANISTIC MASK
Result : E^n/E^n - NO MELANISTIC MASK (E^n) EXTENSION ALLELE[1]
Gene : MC1R
Variant Detected : Base Substitution G>A

Dog tested negative for the melanistic mask allele. The dog will not have a black mask, and cannot pass a copy on to any offspring..

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.

Owner's Name : Amanda Broderick **Pet Name :** Kairi

Microchip Number 985113005993791 **Approved Collection Method :** No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A107216 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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 - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [STOP CODON][1]
Gene : TYRP1
Variant Detected : Point Mutation

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

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.

Owner's Name : Amanda Broderick **Pet Name :** Kairi

Microchip Number 985113005993791 **Approved Collection Method :** No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A107216 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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.

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 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.

Owner's Name : Amanda Broderick
Pet Name : Kairi
Microchip Number 985113005993791
Approved Collection Method : No

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Genetic Comprehensive Report

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Sample with Lab ID Number 24A107216 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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 he 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, kkbr or kbrkbr.

Test Reported : SHEDDING (MC5R)
Result :
SHD/shd [MODERATE SHEDDING] - ONE COPY OF THE SHD (MC5R) VARIANT DETECTED [REFER TO R151W (IC) FOR LEVEL]
1
Gene : MC5R
Variant Detected :

The dog will (may) exhibit a moderate (average) level of shedding. Please Note: this level is also dependent on the furnishing allele. If the dog has no IC (R151W) phenotype will be low shedding.

Owner's Name : Amanda Broderick
Pet Name : Kairi
Microchip Number 985113005993791
Approved Collection Method : No

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.