Orivet

Genetic Comprehensive Report

Animal Name: Calypso

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 :	Legacy's Sing To Your Spirit
Pet Name :	Calypso
Registration Number :	PR26947604
Breed :	Standard Poodle
Microchip Number :	956000016778423
Sex :	Female
Date of Birth :	15th Apr 2023
Colour :	Black

Sample Collection Details

Case Number :	24A161999
Collected By :	
Approved Collection :	No
Sample Type :	SWAB

Test Details

Test Requested :	Standard Poodle – Full Breed Profile
Pet Name :	Calypso
Date of Test :	20th Aug 2024

Authorisation

Sample with Lab ID Number 24A161999 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

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George Sofronidis BSc (Hons)

.....

Dr Noam Pik BVSc, MAVS

bsi ISO 9001 Quality Management

ORIVET LAB CERTIFIED ANALYSIS

Orivet

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ISAG Profile 1

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

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

Microchip Number 956000016778423 **Approved Collection Method :** No

Genetic Comprehensive Report

Animal's Details

Registered Name :	Legacy's Sing To Your Spirit
Pet Name :	Calypso
Registration Number :	PR26947604
Breed :	Standard Poodle
Microchip Number :	956000016778423
Sex :	Female
Date of Birth :	15th Apr 2023
Colour :	Black

ISAG Profile 2

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

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Colour :	Black

DNA Profile

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

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Genetic Comprehensive Report

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Sample with Lab ID Number 24A161999 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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.

Test Reported : CONGENITAL METHEMOGLOBINEMIA (POODLE AND POMERANIAN TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : CYB5R3
Variant Detected : chr10:22836951 (canFam3): A/C

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.

Owner's Name : Amanda Broderick
Pet Name : Calypso
Microchip Number 956000016778423
Approved Collection Method : No

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Genetic Comprehensive Report

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Sample with Lab ID Number 24A161999 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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.

Test Reported : NEONATAL ENCEPHALOPATHY (POODLE TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Activating transcription factor 2 (ATF2) on Chromosome 36
Variant Detected : Base Substitutionc.152T>Gp.Met51Arg

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 : OSTEOCHONDRODYSPLASIA (MIN POODLE TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : SLC13A1
Variant Detected : g.63600045_63729942del129897bp

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 : Calypso
Microchip Number 956000016778423
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A161999 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : POLYDACTYL/DEWCLAWS
Result : NEGATIVE - NOT SHOWING THE PHENOTYPE[1]
Gene : LMBR1
Variant Detected : chr16:19380592 (canFam3): G/A

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 : RCD4-PRA (LATE ONSET)
Result : INDETERMINABLE [INCONCLUSIVE RESULT - RECOLLECTION REQUIRED][1]
Gene : C2orf71 on Chromosome 17
Variant Detected : c.3149_3150insCp.Cys1051ValfsX90

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. We will require a sample recollection from you at no charge.If this test was part of a mixed breed screen (attributes profile) and the test is not relevant for the specific breed(s) in this pet, no recollection is required unless clinically warranted by the veterinarian.

Owner's Name : Amanda Broderick
Pet Name : Calypso
Microchip Number 956000016778423
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A161999 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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.

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

One copy of black (E) and one copy of red/yellow/cream/apricot/white. These "e" colours are dependent on breed. The "e" allele is non-functional. May produce yellow/white/apricot/ruby or red offspring if mated to another carrier of "e".

Test Reported : EM (MC1R) LOCUS - MELANISTIC MASK
Result : E^m/E^n - ONE COPY OF MASK ALLELE DETERMINED BY A SERIES[1]
Gene : MC1R
Variant Detected : Base Substitution G>A

1 copy of mask and 1 copy of red/yellow – dog has mask and carries red/yellow/cream. Carries one dominant allele and one recessive allele.

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

Microchip Number 956000016778423 **Approved Collection Method :** No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A161999 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- ONE COPY OF THE 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 - CARRIER OF BROWN/LIVER/RED/CHOCOLATE [DELETION][1]
Gene : TYRP1
Variant Detected : Base Substitution (Point Mutation)

One copy of brown deletion 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.

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.

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

Microchip Number 956000016778423 **Approved Collection Method :** No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A161999 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 : Amanda Broderick
Pet Name : Calypso
Microchip Number 956000016778423
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A161999 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : K LOCUS (DOMINANT BLACK)
Result :
KB / k^{y} or k^{br}- ONE COPY DOMINANT BLACK (KB) and ONE COPY OF NON-BLACK (k^{y}) dog MAY be brindled[1]
Gene : CBD103
Variant Detected : Deletion of GGG

One copy of non black and one copy of ky or kbr is present. This KB will cover the A locus and all you will visualise is the base colour. Dog will express the alleles on the A locus but any and all phaeomelanin (red) in the coat will be brindled. This allele overides the ASIP (A) locus. The agouti phenotype may be altered for some breeds and therefore be brindle. There are three alleles at the K Locus with the following dominance hierarchy KB > Kbr > k. The first KB represents dominant black, the second allele Kbr represents brindling and may display A locus gene. Brindle in most breeds appears as black stripes on a red base. Please Note: At this stage no commercial genetic testing can distinguish brindle so breeders should rely on their pedigree or breed standard to exclude or include brindle phenotype.

Test Reported : A LOCUS (FAWN/SABLE;TRI/TAN POINTS)
Result : a^{y}/a^{t} - FAWN/RED/SABLE CARRIES TRICOLOUR/TAN POINTS[1]
Gene : ASIP
Variant Detected : Base Substitution 246 G>T(A82S); G>A (R83H): C>T (p.R96C)

Dog has fawn/sable and carries black and tan (hidden colour tri or tan points). Tri factored (Sable & White). Also referred to as "sabled red". Produces fawn or sable coat and the majority of the coat is red/yellow with some black usually intermingled within the coat. Coat colour shown is dependent on the E, K and B Locus. the ay allele is dominant over at.

Test Reported : PIED (BOTH SINE AND REPEAT VARIANTS)
Result : **S/sp - CARRIER OF PIEBALD [LIMITED WHITE SPOTTING, FLASH OR PARTI]**[1]
Gene : MITF-M on Chromosome 20
Variant Detected :
g.chr20:21836563insSINELength polymorphism (repeat CAGA) chr20:21839332-21839366 MITF-M

Carries a single copy of the Melanocyte Inducing Transcription Factor (MITF) "sp" allele. In some breeds the dog may have limited random coat colour deletion, this can vary from a few white hairs up to half white. For somebreeds pied is any amount of white on the dog at all, for others it is a dog that is predominantly white The dog may pass on the "sp" allele to offspring. If no other white-causing genes are at play (such as Irish, white head, pseudo irish, etc.) then most will end up with white chest/toes or less white. Some S/sp appear phenotypically solid in color. It has also been shown that sp/sp does not present as piebald in many wolves and nordic dog breeds

Owner's Name : Amanda Broderick
Pet Name : Calypso
Microchip Number 956000016778423
Approved Collection Method : No

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Genetic Comprehensive Report

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Sample with Lab ID Number 24A161999 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : M LOCUS (MERLE/DAPPLE)

Result : m [171bp] / m [171bp] - NON MERLE SOLID COAT (NO CHANGE TO COAT or EYE COLOUR)[1]

Gene : SILV

Variant Detected :

250 base pair SINE insertion, oligo(dA)-rich tails with length polymorphism. Detects and reports all the 7 alleles on the M Locus (Mh, M, Ma+, Ma, Mc+, Mc and m)

There are many factors that may influence a Merle result, these include mosaicism (merle expressed in different cell types) or the amount of circulating merle copies within the sample type. If this result does not match your phenotype please contact Orivet to request retest or re-analysis of the sample.

Test Reported : SHEDDING (MC5R)

Result :

shd/shd [HIGH SHEDDING] - TWO COPIES OF THE shd (MC5R) VARIANT DETECTED REFER TO R151W (IC) FOR LEVEL OF SHEDDING

1

Gene : MC5R

Variant Detected :

The dog will (may) exhibit a low leves 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.

Test Reported : CURLY COAT/HAIR CURL (KRT71 R151W)

Result :

POSITIVE FOR THE KRT71 R151W (Cu/Cu) VARIANT - LIKELY TO HAVE CURLY (TIGHT) HAIR PHENOTYPE

1

Gene : KRT71 (R151W)

Variant Detected : chr27:2539211-2539211: c.451C>T

Please note there are other additional curly coat genes/variant that will impact the curly coat phenotype.

Owner's Name : Amanda Broderick

Pet Name : Calypso

Microchip Number 956000016778423

Approved Collection Method : No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 24A161999 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : CURLY COAT PHENOTYPE (KRT71 - P.SER422ARGFSTER)

Result :

NEGATIVE FOR THE KRT71 (p.Ser422ArgfsTer) VARIANT - NOT SHOWING THE CURLY COAT (C2) PHENOTYPE

1

Gene : KRT71

Variant Detected : c.1266_1273delCCTGAAGCinsACA p. Ser422ArgfsTer

Test Reported : IMPROPER COAT/FURNISHINGS (RSPO2)

Result : **POSITIVE FOR IMPROPER COAT/FURNISHINGS (OPEN FACE) - WILL SHOW FURNISHINGS**[1]

Gene : RSPO2

Variant Detected : 167 bp insertion in 3'UTR region

Two copies of IC variant have been detected and will therefore have furnishings (improper coat). However, the overall coat type of this dog is dependent on the combination of this dog's genotypes at the L, Cu, and IC loci. This dog will pass IC (improper coat) on to 100% of its offspring and can produce puppies with improper coat if bred with a dog that carries one copy (F/IC) or two copies (IC/IC) of the mutation for improper coat

Owner's Name : Amanda Broderick

Pet Name : Calypso

Microchip Number 956000016778423

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.