Orivet

Genetic Comprehensive Report

Animal Name: Oliver

Owner:
Terri Johnson
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:	Terri Johnson

Animal's Details

Registered Name :	
Pet Name :	Oliver
Registration Number :	
Breed :	Aussiedoodle
Microchip Number :	
Sex :	Intact Male
Date of Birth :	5th Jun 2023
Colour :	Red Merle

Sample Collection Details

Case Number :	23A104155
Collected By :	
Approved Collection :	No
Sample Type :	SWAB

Test Details

Test Requested :	Aussiedoodle – Full Breed Profile
Pet Name :	Oliver
Date of Test :	13th Nov 2023

Authorisation

Sample with Lab ID Number 23A104155 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

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Orivet Genetic Analyst

ORIVET CERTIFIED REPORT

bsi ISO 9001 Quality Management

Orivet

Genetic Comprehensive Report

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Animal's Details

Registered Name :	
Pet Name :	Oliver
Registration Number :	
Breed :	Aussiedoodle
Microchip Number :	
Sex :	Intact Male
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ISAG Profile 1

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

Owner's Name : Terri Johnson

Pet Name : Oliver

Microchip Number

Approved Collection Method : No

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Animal's Details

Registered Name :	
Pet Name :	Oliver
Registration Number :	
Breed :	Aussiedoodle
Microchip Number :	
Sex :	Intact Male
Date of Birth :	5th Jun 2023
Colour :	Red Merle

ISAG Profile 2

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

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Registered Name :	
Pet Name :	Oliver
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Microchip Number :	
Sex :	Intact Male
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Colour :	Red Merle

DNA Profile

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

Owner's Name : Terri Johnson

Pet Name : Oliver

Microchip Number

Approved Collection Method : No

Orivet

Genetic Comprehensive Report

Scan to authenticate this Report online

Sample with Lab ID Number 23A104155 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : AUTOSOMAL HEREDITARY RECESSIVE NEPHROPATHY
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Collagen type IV alpha 4 chain (COL4A4) on chromosome 25
Variant Detected : Base Substitutionc.115A>Tp.Lys39STOP

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 : COLLIE EYE ANOMALY/CHOROIDAL HYPOPLASIA
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Non-homologous end joining factor 1 (NHEJ1) on chromosome 37
Variant Detected : Nucleotide Deletion7799 base pair deletion in Intron 4 of the NHEJ1 gene

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 : CONE-ROD DYSTROPHY I - PRA (CRD -4/CORD I)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : RPGR interacting protein 1 (RPGRIP1) on chromosome 15
Variant Detected :
Nucleotide Insertionc.338-339InsA(29)GGAAGCAACAGGATGp.Thr59STOP (frameshift and premature stop codon)

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 : Terri Johnson
Pet Name : Oliver
Microchip Number
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

Scan to authenticate this Report online

Sample with Lab ID Number 23A104155 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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.

Test Reported : GANGLIOSIDOSIS GM2 (POODLE TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Hexosaminidase subunit beta (HEXB) on Chromosome 2
Variant Detected : Nucleotide Deletionc.391delGp.Val95fsX

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 : Terri Johnson
Pet Name : Oliver
Microchip Number
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

Scan to authenticate this Report online

Sample with Lab ID Number 23A104155 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : HYPERURICOSURIA
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : Solute carrier family 2 member 9 (SLC2A9) on chromosome 3
Variant Detected : Base Substitutionc.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.

Test Reported : IVERMECTIN SENSITIVITY MDR1 (MULTI DRUG RESISTANCE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : MDR1 on Chromosome 14
Variant Detected : Deletion 4bp AGAT

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 : NEURONAL CEROID LIPOFUSCINOSIS 6 (AUSTRALIAN SHEPHERD TYPE)
Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : CLN6
Variant Detected : c.829T>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.

Owner's Name : Terri Johnson
Pet Name : Oliver
Microchip Number
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

Scan to authenticate this Report online

Sample with Lab ID Number 23A104155 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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.

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 : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]
Gene : C2orf71 on Chromosome 17
Variant Detected : c.3149_3150insCp.Cys1051ValfsX90

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 : Terri Johnson
Pet Name : Oliver
Microchip Number
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

Scan to authenticate this Report online

Sample with Lab ID Number 23A104155 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 - 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 eumalanin will not produce any "e" offspring. The Extension loci is responsible for the majority of non-agouti patterns.

Test Reported : E LOCUS (CATTLE DOG CREAM VARIANT) E2
Result : E^2/E^2 - DOMINANT BLACK DOES NOT CARRY "AUSTRALIAN CATTLE DOG" TYPE CREAM[1]
Gene : MC1R
Variant Detected : c.430G>C

This e2 variant is associated with the pale cream coat colour seen in the Australian cattle dog and other varieties or breeds of common ancestry.

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.

Owner's Name : Terri Johnson
Pet Name : Oliver
Microchip Number
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 23A104155 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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.

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 [AUSTRALIAN SHEPHERD TYPE] = BA
Result :
B^a/B^a - NO COPY OF THE BROWN/RED c.555T>G VARIANT [AUSTRALIAN SHEPHERD TYPE] DETECTED[1]
Gene : TYRP1
Variant Detected : c.555T>G

This dog does not carry any copies of the ba mutation and has a B locus genotype of Ba/Ba. This dog will pass one copy of B to 100% of its offspring and cannot produce ba/ba dogs.

Owner's Name : Terri Johnson
Pet Name : Oliver
Microchip Number
Approved Collection Method : No

ISO 9001 Quality Management

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 23A104155 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 :
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.

Owner's Name : Terri Johnson
Pet Name : Oliver
Microchip Number
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

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Sample with Lab ID Number 23A104155 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^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/S - NO PIEBALD, WHITE SPOTTING, FLASH OR PARTI COAT COLOUR[1]

Gene : MITF-M on Chromosome 20

Variant Detected :
g.chr20:21836563insSINELength polymorphism (repeat CAGA) chr20:21839332-21839366 MITF-M

No copies of the Melanocyte Inducing Transcription Factor (MITF) "sp" allele detected. The dog will not pass the MITF variant on to offspring. Please note that other yet unidentified causes of colour deletion may exist. An S/S dog bred to sp/sp piebald dog will result in all S/sp 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. Also S/S dogs can show small white marks. This is normally congenital residual white (and not genetic) and this may also be the cause of small white marks in some S/sp dogs. Some S/sp appear phenotypically solid in color. Please note, that in some breeds other factors such as Merle may produce patterns that are similar to what is seen in a homozygous (two copies) piebald.

Test Reported : M LOCUS (MERLE/DAPPLE)

Result :
m [171bp] / M [265 to 268bp] - CLASSIC MERLE/DAPPLE [RANDOM "MIXED" AREAS OF DILUTED 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)

The base pair scale determines the risk and hence the 'type' of Merle. Based on research conducted by Langevin et al; the following breeding combinations are recommended. A classic merle or dapple is only considered SAFE to breed with a non merle (m) or a Mc (cryptic). ie. There will be no pigment is diluted to white and no impairments. All other merles are considered to pose a low to high risk and mating these combinations is not recommended.

Owner's Name : Terri Johnson

Pet Name : Oliver

Microchip Number

Approved Collection Method : No

bsi ISO 9001 Quality Management

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Genetic Comprehensive Report

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Sample with Lab ID Number 23A104155 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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.

Test Reported : COAT COMPOSITION CFA28 GENE (DOUBLE/SINGLE COAT)
Result : UDC/udc - ONE COPY OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED[1]
Gene : CFA28
Variant Detected :

Moderate to Low Shedding please refer to IC result to clarify level of shedding

Test Reported : CURLY COAT/HAIR CURL (KRT71 R151W)
Result :
ONE COPY OF THE KRT71 R151W (CU/Cu) VARIANT DETECTED - MOST LIKELY TO HAVE MODERATE 'WAVY' CURLY COAT 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 : Terri Johnson
Pet Name : Oliver
Microchip Number
Approved Collection Method : No

Orivet

Genetic Comprehensive Report

Scan to authenticate this Report online

Sample with Lab ID Number 23A104155 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : NATURAL BOB TAIL (SHORT TAIL PHENOTYPE)
Result : NEGATIVE - NOT SHOWING THE PHENOTYPE[1]
Gene : Gene: T on Chromosome 1
Variant Detected : Base Substitution C>G

Owner's Name : Terri Johnson
Pet Name : Oliver
Microchip Number
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.