



# Orivet

# Genetic Comprehensive Report

**Animal Name:** Ice

**Owner:**

MaryAnn Fletcher

Membership Number : 9195397734

Member Body/Breed Club: Rocky Creek Labradors

Approved Collection Method:  Yes



[orivet.com](https://orivet.com)

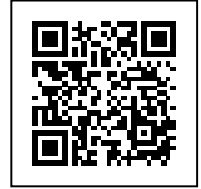
Accredited and Compliant with



Members of



Harmonization of  
Genetic Testing  
for Dogs



Scan to authenticate  
this Report online

## Owner's details

Name: MaryAnn Fletcher

## Animal's Details

Registered Name : Rockycreek's PBR On The Rocks At Chrismill

Pet Name : Ice

Registration Number : SS13928702

Breed : Labrador Retriever

Microchip Number : 956000012082520

Sex : Female

Date of Birth : 27th Jul 2019

Colour : Black

## Sample Collection Details

Case Number : 22G02967

Collected By : Kimberly Horn

Approved Collection : Yes

Sample Type : SWAB

## Test Details

Test Requested : Labrador Retriever - Full Breed Profile

Pet Name : Ice

Date of Test : 24th Mar 2022

## Authorisation

Sample with Lab ID Number 22G02967 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

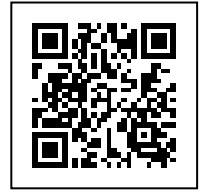


Orivet Genetic Analyst





# Genetic Comprehensive Report



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## Animal's Details

Registered Name :	Rockycreek's PBR On The Rocks At Chrismill
Pet Name :	Ice
Registration Number :	SS13928702
Breed :	Labrador Retriever
Microchip Number :	956000012082520
Sex :	Female
Date of Birth :	27th Jul 2019
Colour :	Black

## ISAG Profile 1

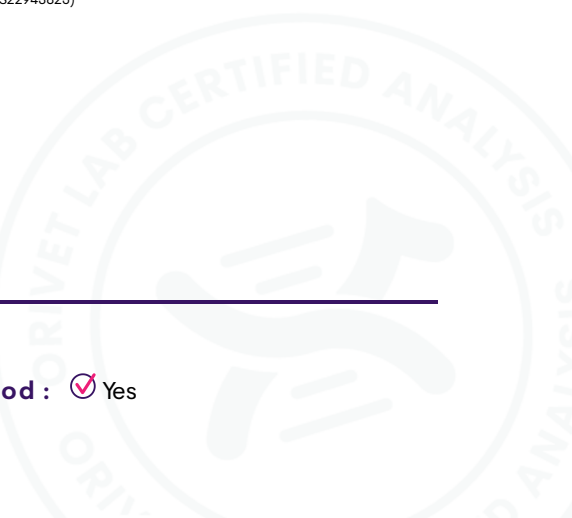
Cfam_1:106430955	AA	Cfam_1:119414584	AG	Cfam_1:20842130	AG	Cfam_1:3962719	GG	Cfam_1:70238933	AG	Cfam_1:80971770	AG
(B)CF2S23111132		(B)CF2P157421		Cfam_10:30034450		(B)CF2G630708384		(B)CF2P554817		Cfam_11:5318488	AG
Cfam_16:46884446	AA	Cfam_10:22409408				Cfam_10:66922269	AG	Cfam_11:23907101		(B)CF2S2338108	
(B)CF2P237994						(B)CF2S23049416		(B)CF2P1308802		Cfam_13:59896033	AC
Cfam_11:65603333		Cfam_12:35306641		Cfam_12:55201839	GG	Cfam_12:5579055	AA	Cfam_12:68125319		Cfam_16:29634940	AA
				(B)CF2G630122583		(B)CF2P382742		(B)CF2P1344095		(B)CF2P561057	
Cfam_13:8704192	AG	Cfam_14:50063321	GG	Cfam_14:58465266	AG	Cfam_15:19299365	AG	Cfam_15:22834903		Cfam_18:54361347	AG
(B)CF2P182473		(B)CF2P624936		(P24_2)		(B)CF2P105070		(B)CF2G630437783		(B)CF2G63011735	
Cfam_16:46884446	AC	Cfam_16:57958947	AA	Cfam_17:10649078	AA	Cfam_17:34462308	GG	Cfam_17:39124697		Cfam_18:54361347	AG
(B)CF2P774003		(B)CF2P635478		(B)CF2G630220326		(B)CF2G630209373		(B)CF2P998036		(B)CF2G630689403	GG
Cfam_18:6745949	GG	Cfam_19:15926130	AA	Cfam_19:27288167	AA	Cfam_19:47470564	AA	Cfam_19:841347		Cfam_2:2610859	
(B)CF2S23535154		(P13_3)		(B)CF2P251850	GG	(B)CF2S23214514	AA	(B)CF2S2373033		(P32_3)	
Cfam_2:38293797	AG	Cfam_2:77806065	GG	Cfam_20:13740894	AA	Cfam_20:49900586	AA	Cfam_20:57167714		Cfam_21:15558670	AG
(B)CF2P1159837		(B)CF2P878175		(B)CF2S23246455	AG	(B)CF2P347679		(P26_1)		(B)CF2G630653298	CC
Cfam_21:25537675	AA	Cfam_21:35719434	AG	Cfam_22:26694580	GG	Cfam_22:55308193	AA	Cfam_22:641125		Cfam_23:42886681	CC
(B)CF2S23018785		(B)CF2S23326150		(B)CF2G630326688		(B)CF2S2329382		Cfam_25:2073511		(P34_1)	
Cfam_23:50772488	AA	Cfam_24:23393510		Cfam_24:29909901	GG	Cfam_24:47381908	AG	Cfam_25:33986348	GG	(B)CF2G630102146	CC
(B)CF2P277987				(TI GRP2P316532_rs8597522)	AA	(B)CF2P990814		(P15_3)		Cfam_27:41049333	CC
Cfam_25:47708600	GG	Cfam_26:20004896	AA	Cfam_26:35071515	AA	Cfam_27:22599860	GG	Cfam_27:2619058		(TI GRP2P356245_rs8830240)	CC
(B)CF2G630159183		(B)CF2G630798972		(B)CF2P1192522		(B)CF2G630149030		(B)CF2S236196		Cfam_29:36319325	CC
Cfam_28:18509221	AG	Cfam_28:38885325	AA	Cfam_28:9877730	AA	Cfam_29:17561258	GG	Cfam_29:251970		(B)CF2G630634836	GG
(B)CF2G630271966		(TI GRP2P362535_rs9130694)		(B)CF2G630276039		(B)CF2S23713161		Cfam_30:15542105		(TI GRP2P372104_rs9153277)	AG
Cfam_29:9425359	GG	Cfam_31:1252765	AA	Cfam_3:24757939	AA	Cfam_3:73570828		Cfam_30:32852404		(G1425116S28)	AA
(P17_3)		(P27_2)						Cfam_32:32382778		Cfam_36:12714421	AA
Cfam_30:3896482	AA	Cfam_31:21068798	AG	Cfam_31:39391935	AA	Cfam_32:17792284	GG	(B)CF2P885380		(B)CF2P1226745	AA
(B)CF2S23124313		(B)CF2P1454500		(B)CF2G630200354		(B)CF2G630594648		Cfam_35:15345329		Cfam_38:17657161	
Cfam_33:15018500	AG	Cfam_33:23742061		Cfam_34:195313	AC	Cfam_34:24396298		(TI GRP2P407751_rs8803124)			
(B)CF2P516667				(P2_3)				Cfam_37:27667297			
Cfam_36:23459390	AA	Cfam_36:3565500	AA	Cfam_37:15436615	AG	Cfam_37:27667297	AA	(B)CF2G630133028			
(B)CF2P935470		(B)CF2P728698		(P21_3)		(B)CF2G630133028		Cfam_4:64121754			
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(B)CF2P600196		(B)CF2P615597		(B)CF2P805553				Cfam_6:11553458	AG	(B)CF2P1357746	AG
Cfam_5:26320165		Cfam_5:5410890	GG	Cfam_5:85451804	AG	Cfam_6:11553458	AG	Cfam_6:33976751		Cfam_6:64006720	
		(B)CF2S23648905		(B)CF2P1346673	GG	(P8_1)		Cfam_8:45852939		Cfam_8:5291824	AA
Cfam_7:15011628	AA	Cfam_7:36555518	GG	Cfam_7:76294	GG	Cfam_8:18121580	GG	Cfam_9:65087		(P23_3)	
(B)CF2G630552597		(B)CF2G630558437				(B)CF2P65087		Cfam_9:52710991	AG		
Cfam_8:63196958	AA	Cfam_9:22610227	AG	Cfam_9:40096141	AA	Cfam_9:52710991	AG	Cfam_9:60437147	AG		
(B)CF2S23449478		(B)CF2P1010945		(B)CF2P1216677		(P24_1)		(B)CF2S22943825			

Owner's Name : MaryAnn Fletcher

Pet Name : Ice

Microchip Number 956000012082520

Approved Collection Method :  Yes



# Genetic Comprehensive Report

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Registered Name :	Rockycreek's PBR On The Rocks At Chrismill
Pet Name :	Ice
Registration Number :	SS13928702
Breed :	Labrador Retriever
Microchip Number :	956000012082520
Sex :	Female
Date of Birth :	27th Jul 2019
Colour :	Black

## ISAG Profile 2

Cfam_1:119306331 (BI CF2P635172) Cfam_10:57954366 (BI CF2P963969) Cfam_12:40681020 (TI GRP2P164720_rs8839809) Cfam_16:29675662 (BI CF2S23250041) Cfam_18:16385020 (BI CF2S23529290) Cfam_19:42756283 (BI CF2P401677) Cfam_21:31751817 (BI CF2P42825) Cfam_23:44497217	GG Cfam_1:72613047 (P1_2) AA Cfam_10:8085469 AG Cfam_12:6337286 (BI CF2P1193353) CC Cfam_16:58093031 (P24_3) AG Cfam_18:16388978 (BI CF2P250787) Cfam_20:45777531 AA (BI CF2P345488) Cfam_22:20498421 Cfam_23:48055836 (BI CF2G630365778) Cfam_25:4614777 AG (BI CF2P1362405) Cfam_28:35104850 AA (BI CF2P1226838) GG Cfam_3:10255068 (BI CF2S2399705) AG Cfam_3:91626907 GG Cfam_33:15233992 (BI CF2S23356653) Cfam_34:37323213 (BI CF2P590440) Cfam_36:288045 (P6_2) Cfam_37:30902202	AA Cfam_1:74450772 Cfam_11:1161870 AG Cfam_12:70657733 (BI CF2P1183665) Cfam_17:12787849 AG Cfam_18:31579269 (BI CF2P184963) Cfam_20:48602465 AG (BI CF2P840653) Cfam_22:33934047 (BI CF2G630328323) Cfam_24:18599997 AG (BI CF2G630504410) Cfam_27:20948372 AA (BI CF2S2359809) Cfam_28:9703418 AA (BI CF2G630276136) AG Cfam_3:37849557 (BI CF2P643134) Cfam_30:10012939 AA Cfam_33:22070526 (BI CF2G63078341) Cfam_34:41703614 GG Cfam_36:9241262 Cfam_38:13098194 Cfam_4:70217695 AG Cfam_5:64611038 (BI CF2P414351) GG Cfam_8:24614720 (BI CF2P1141966) Cfam_9:50114927 Cfam_9:56021221 (BI CF2G630474528)	Cfam_10:14685262 (BI CF2G630666362) Cfam_11:62157625 (BI CF2G630306265) (BI CF2P496466) Cfam_17:57371669 (BI CF2S2351979) Cfam_18:47325586 (TI GRP2P255960_rs9030578) Cfam_20:6046176 (BI CF2S22910736) Cfam_22:37522364 (BI CF2P345056) Cfam_24:27925354 Cfam_27:34444177 (TI GRP2P354499_rs9162547) Cfam_29:19681270 AG Cfam_3:43055696 (BI CF2G630340940) Cfam_30:11735245 (BI CF2P103615) Cfam_33:22472901 (BI CF2P378969) Cfam_35:15283717 (BI CF2S23429022) Cfam_37:18338930 Cfam_38:15271384 (BI CF2S22928800) Cfam_5:13080303 Cfam_7:3318809 (BI CF2P1173491) Cfam_8:6188937 (TI GRP2P116826_rs8741680)	AG Cfam_10:39548483 (BI CF2G630488267) Cfam_11:70698603 AA (BI CF2G630307199) AG Cfam_13:40616856 (BI CF2P651575) Cfam_17:9407683 GG (BI CF2G630221287) Cfam_19:30246414 (P25_2) Cfam_21:22581321 GG Cfam_22:39647748 (BI CF2S23519644) Cfam_24:30954773 AG (BI CF2G630499189) Cfam_27:42526114 (BI CF2S22913753) Cfam_29:22992304 (BI CF2P950116) AA Cfam_3:43063677 (BI CF2G630340944) Cfam_30:27619023 AA (BI CF2S22926284) Cfam_33:22648231 CC (TI GRP2P389035_rs9038546) Cfam_36:10084888 (BI CF2P129670) Cfam_37:26611359 (BI CF2P129347) Cfam_38:19172567 (BI CF2S23031254) Cfam_5:36642434 GG Cfam_7:6423299 AA Cfam_8:67183794 (BI CF2P789367)	AG Cfam_10:47923623 (BI CF2P465276) Cfam_14:55735620 AG (BI CF2P1369088) Cfam_18:10189759 AG (BI CF2P46604) Cfam_19:40189405 AA (BI CF2P1310805) Cfam_21:29796784 AA (TI GRP2P283310_rs8881748) Cfam_22:61153661 AG (P26_3) Cfam_24:43589304 GG (BI CF2S23138418) Cfam_28:12804225 AA (BI CF2G630274628) Cfam_29:4020192 AA (BI CF2P464536) Cfam_3:64084413 AA (P4_3) Cfam_31:20912553 AG Cfam_34:24351570 (BI CF2S23649947) Cfam_36:12723744 AA (BI CF2P70891) Cfam_37:28611801 AG (BI CF2G630133994) Cfam_38:20930997 AA (BI CF2S23614068) Cfam_5:44650576 GG (BI CF2G630187658) Cfam_7:76487265 GG (BI CF2P798404) Cfam_9:20867959
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Owner's Name : MaryAnn Fletcher

Pet Name : Ice

Microchip Number 956000012082520

Approved Collection Method :  Yes



# Genetic Comprehensive Report

## Animal's Details

Registered Name :	Rockycreek's PBR On The Rocks At Chrismill
Pet Name :	Ice
Registration Number :	SS13928702
Breed :	Labrador Retriever
Microchip Number :	956000012082520
Sex :	Female
Date of Birth :	27th Jul 2019
Colour :	Black

## DNA Profile

BI CF2G630102146 (BI CF2G630102146) BI CF2G630204463 (BI CF2G630204463) BI CF2G630307199 (BI CF2G630307199) BI CF2G630449851 (BI CF2G630449851) BI CF2G630594648 (BI CF2G630594648) BI CF2G63090019 (BI CF2G63090019) BI CF2P1173491 (BI CF2P1173491) BI CF2P1271174 (BI CF2P1271174) BI CF2P1346673 (BI CF2P1346673) BI CF2P1346673 BI CF2P224656 (BI CF2P224656) BI CF2P285489 (BI CF2P285489) BI CF2P285489 BI CF2P422152 (BI CF2P422152) BI CF2P585943 (BI CF2P585943) BI CF2P717226 (BI CF2P717226) BI CF2P878175 (BI CF2P878175) BI CF2S22943825 (BI CF2S22943825) BI CF2S23126079 (BI CF2S23126079) BI CF2S23449478 (BI CF2S23449478) BI CF2S23648905 (BI CF2S23648905) TI GRP2P116826_rs8741680 (TI GRP2P116826_rs8741680) TI GRP2P402042_rs9121006 (TI GRP2P402042_rs9121006)	GG BI CF2G630149581 (BI CF2G630149581) AA BI CF2G630209373 (BI CF2G630209373) AA BI CF2G630340940 (BI CF2G630340940) AA BI CF2G630467607 (BI CF2G630467607) GG BI CF2G630634836 (BI CF2G630634836) AT BI CF2P1019402 (BI CF2P1019402) GG BI CF2P1183665 (BI CF2P1183665) AA BI CF2P129347 (BI CF2P129347) AA BI CF2P129347 (BI CF2P129347) AG BI CF2P1357746 (BI CF2P1357746) AA BI CF2P237994 (BI CF2P237994) AG BI CF2P345056 (BI CF2P345056) AG BI CF2P345056 (BI CF2P345056) AG BI CF2P508740 (BI CF2P508740) AG BI CF2P624936 (BI CF2P624936) AC BI CF2P751654 (BI CF2P751654) GG BI CF2P935470 (BI CF2P935470) AG BI CF2S23028732 (BI CF2S23028732) AG BI CF2S23246455 (BI CF2S23246455) AA BI CF2S23519644 (BI CF2S23519644) GG BI CF2S23649947 (BI CF2S23649947) AA TI GRP2P164720_rs8839809 (TI GRP2P164720_rs8839809) AG TI GRP2P164720_rs8839809 (TI GRP2P164720_rs8839809) AG TI GRP2P406551_rs9235397 (TI GRP2P406551_rs9235397)	AA BI CF2G630159183 (BI CF2G630159183) GG BI CF2G630209508 (BI CF2G630209508) AA BI CF2G630340944 (BI CF2G630340944) CC BI CF2G630488267 (BI CF2G630488267) CC BI CF2G630641678 (BI CF2G630641678) GG BI CF2P103615 (BI CF2P103615) AG BI CF2P1193353 (BI CF2P1193353) AG BI CF2P129670 (BI CF2P129670) AG BI CF2P129670 (BI CF2P129670) AG BI CF2P1454500 (BI CF2P1454500) AA BI CF2P246592 (BI CF2P246592) GG BI CF2P347679 (BI CF2P347679) CG BI CF2P516667 (BI CF2P516667) GG BI CF2P553317 (BI CF2P553317) GG BI CF2P635172 (BI CF2P635172) AA BI CF2P774003 (BI CF2P774003) AA BI CF2P990814 (BI CF2P990814) TT BI CF2S23031254 (BI CF2S23031254) AA BI CF2S23250041 (BI CF2S23250041) AG BI CF2S2351979 (BI CF2S2351979) AG BI CF2S23713161 (BI CF2S23713161) AG TI GRP2P177606_rs8886563 (TI GRP2P177606_rs8886563) AG TI GRP2P177606_rs8886563 (TI GRP2P177606_rs8886563)	GG BI CF2G630170631 (BI CF2G630170631) AG BI CF2G630255439 (BI CF2G630255439) AG BI CF2G630365778 (BI CF2G630365778) AG BI CF2G630504410 (BI CF2G630504410) AA BI CF2G630689403 (BI CF2G630689403) AG BI CF2P1060087 (BI CF2P1060087) AG BI CF2P1216677 (BI CF2P1216677) AG BI CF2P1308802 (BI CF2P1308802) AG BI CF2P155421 (BI CF2P155421) CC BI CF2P250787 (BI CF2P250787) AA BI CF2P250787 (BI CF2P250787) AG BI CF2P378969 (BI CF2P378969) AG BI CF2P553317 (BI CF2P553317) GG BI CF2P643134 (BI CF2P643134) AC BI CF2P798404 (BI CF2P798404) AG BI CF2S22910736 (BI CF2S22910736) CC BI CF2S23049416 (BI CF2S23049416) CC BI CF2S2333411 (BI CF2S2333411) GG BI CF2S2359809 (BI CF2S2359809) GG BI CF2S2373033 (BI CF2S2373033) GG TI GRP2P215708_rs8686029 (TI GRP2P215708_rs8686029) AT TI GRP2P215708_rs8686029 (TI GRP2P215708_rs8686029) AA TI GRP2P316532_rs8597522 (TI GRP2P316532_rs8597522)	CC BI CF2G630187649 (BI CF2G630187649) GG BI CF2G630271966 (BI CF2G630271966) AC BI CF2G630382763 (BI CF2G630382763) AG BI CF2G630552598 (BI CF2G630552598) AG BI CF2G630798972 (BI CF2G630798972) GG BI CF2P1104630 (BI CF2P1104630) AA BI CF2P1226838 (BI CF2P1226838) AA BI CF2P1310805 (BI CF2P1310805) AA BI CF2P157421 (BI CF2P157421) AC BI CF2P25730 (BI CF2P25730) CC BI CF2P382742 (BI CF2P382742) GG BI CF2P554817 (BI CF2P554817) AG BI CF2P65087 (BI CF2P65087) GG BI CF2P842510 (BI CF2P842510) AA BI CF2S22913753 (BI CF2S22913753) AG BI CF2S23057560 (BI CF2S23057560) GG BI CF2S23356653 (BI CF2S23356653) AA BI CF2S236196 (BI CF2S236196) AA BI CF2S24511913 (BI CF2S24511913) AT TI GRP2P316532_rs8597522 (TI GRP2P316532_rs8597522)	AA BI CF2G630187658 (BI CF2G630187658) AG BI CF2G630274628 (BI CF2G630274628) GG BI CF2G630274628 (BI CF2G630274628) AA BI CF2G630437783 (BI CF2G630437783) GG BI CF2G630558437 (BI CF2G630558437) AA BI CF2G630814422 (BI CF2G630814422) CC BI CF2G630814422 (BI CF2G630814422) AG BI CF2P1141966 (BI CF2P1141966) AG BI CF2P1232055 (BI CF2P1232055) AA BI CF2P1232055 (BI CF2P1232055) AG BI CF2P1344095 (BI CF2P1344095) AG BI CF2P182473 (BI CF2P182473) AT BI CF2P283440 (BI CF2P283440) GG BI CF2P283440 (BI CF2P283440) GG BI CF2P415783 (BI CF2P415783) AC BI CF2P561057 (BI CF2P561057) GG BI CF2P561057 (BI CF2P561057) AA BI CF2P651576 (BI CF2P651576) GG BI CF2P856893 (BI CF2P856893) AG BI CF2S22928800 (BI CF2S22928800) AG BI CF2S23124313 (BI CF2S23124313) AG BI CF2S23429022 (BI CF2S23429022) AA BI CF2S23626625 (BI CF2S23626625) AA TI GRP2P106843_rs8858816 (TI GRP2P106843_rs8858816) GG TI GRP2P372104_rs9153277 (TI GRP2P372104_rs9153277)
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Owner's Name : MaryAnn Fletcher

Pet Name : Ice

Microchip Number 956000012082520

Approved Collection Method :  Yes





Scan to authenticate  
this Report online

## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

**Test Reported :** ACHROMATOPSIA (LABRADOR TYPE)

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

**Gene :** CNGA3

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

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

**Test Reported :** CENTRONUCLEAR MYOPATHY (LABRADOR RETRIEVER TYPE)

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

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

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

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

**Test Reported :** CONGENITAL MACROTHROMBOCYTOPENIA

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

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

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

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

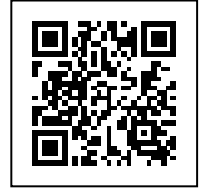
**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes





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## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

**Test Reported :** CONGENITAL MYASTHENIC SYNDROME (LABRADOR RETRIEVER TYPE)

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

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

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

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

**Test Reported :** CYSTINURIA (SLC3A1) LABRADOR RETRIEVER TYPE

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

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

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

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

**Test Reported :** DEGENERATIVE MYELOPATHY

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

**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.

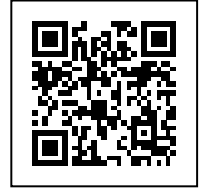
**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes





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## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

**Test Reported :** EHLERS-DANLOS SYNDROME (LABRADOR TYPE)

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

**Gene :** COL5A1, chr9

**Variant Detected :** c.3038delGp.Gly1013ValfsTer260

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

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

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

**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 :** EXERCISE INDUCED COLLAPSE (RETRIEVER TYPE)

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

**Gene :** DNM1

**Variant Detected :** Base Substitution c.767 G>T

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

**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes







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## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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

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

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

**Variant Detected :** Base Substitutionc.972T>Gp.Asn324Lys

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

**Test Reported :** HYPERURICOSURIA

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

**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 :** MACULAR CORNEAL DYSTROPHY (LABRADOR TYPE)

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

**Gene :** LOC4

**Variant Detected :** c.814C>A

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

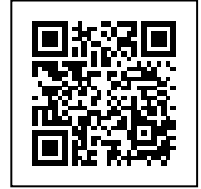
**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes





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## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

**Test Reported :** MALIGNANT HYPERTHERMIA

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

**Gene :** Ryanodine receptor 1 (RYR1) on Chromosome 1

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

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

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

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

**Gene :** Myotubularin 1 (MTM1) on Chromosome X

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

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

**Test Reported :** NARCOLEPSY (LABRADOR)

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

**Gene :** Hypocretin receptor 2 (HCRTR2) on Chromosome 12

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

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

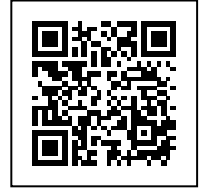
**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes





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## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 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]**<sup>1</sup>

**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 :** PYRUVATE KINASE DEFICIENCY (LABRADOR TYPE)

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

**Gene :** PKLR

**Variant Detected :** c.799C>T

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

**Test Reported :** SKELETAL DYSPLASIA 2 (MILD DISPROPORTIONATE DWARFISM)

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

**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.

**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes



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## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

**Test Reported :** STARGARDT DISEASE (RETINAL DEGENERATION)

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

**Gene :** ABCA4

**Variant Detected :** c.4176insC

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

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

**Result :** E/e - BLACK CARRIES EXTENSION [YELLOW/WHITE/APRICOT/RUBY/RED]<sup>1</sup>

**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 :** I PHEOMELANIN LOCUS COLOUR INTENSITY

**Result :** I/i- ONE COPY OF THE MFSD12 INTENSITY/CREAM ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)<sup>1</sup>

**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.

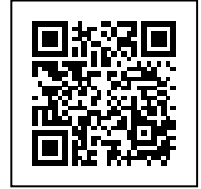
**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes





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## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

**Test Reported :** BROWN DELETION = BD

**Result :** **B<sup>d</sup>/B<sup>d</sup> - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION]**<sup>1</sup>

**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<sup>s</sup>/B<sup>s</sup> - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [STOP CODON]**<sup>1</sup>

**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<sup>c</sup>/B<sup>c</sup> - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [INSERTION]**<sup>1</sup>

**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.

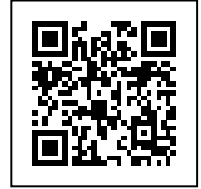
**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes





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## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 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<sup>L</sup>/B<sup>L</sup> - DOES NOT CARRY BROWN/LIVER [TYRP1]<sup>1</sup>

**Gene :**

**Variant Detected :**

**Test Reported :** D (DILUTE) LOCUS

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

**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 :** DILUTE D2 VARIANT (CHOW CHOW TYPE)

**Result :** d<sup>2</sup>/d<sup>2</sup> - NO COPY OF d2 ALLELE (DILUTE) - PIGMENT IS NORMAL<sup>1</sup>

**Gene :** MLPH

**Variant Detected :** c.705G>C

This d2 variant has been shown to be associated with the blue/dilute seen in the Chow Chow, Sloughi, Thai Ridgeback and any mixes of these breeds.

**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes





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## Genetic Comprehensive Report

Sample with Lab ID Number 22G02967 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

**Test Reported :** K LOCUS (DOMINANT BLACK)

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

**Gene :** CBD103

**Variant Detected :** Deletion of GGG

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

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

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

**Gene :** ASIP

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

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

**Test Reported :** LONG HAIR GENE (CANINE C95F)

**Result :** **NEGATIVE - NOT SHOWING THE PHENOTYPE**<sup>1</sup>

**Gene :** FGF5

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

**Owner's Name :** MaryAnn Fletcher

**Pet Name :** Ice

**Microchip Number** 956000012082520

**Approved Collection Method :**  Yes



# Glossary of Genetic Terms (Results)



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## **NEGATIVE / CLEAR [NO VARIANT DETECTED]**

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

## **CARRIER [ONE COPY OF THE VARIANT DETECTED]**

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

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

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

## **POSITIVE HETEROZYGOUS [ONE COPY OF THE DOMINANT VARIANT DETECTED]**

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

## **NORMAL BY PARENTAGE HISTORY**

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

## **NORMAL BY PEDIGREE**

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

## **NO RESULTS AVAILABLE**

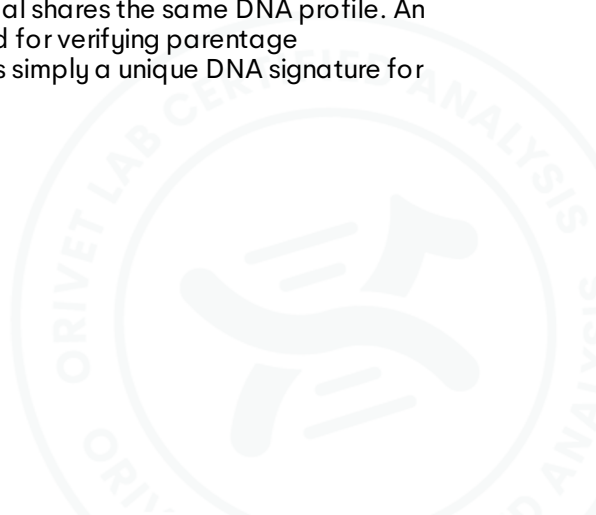
Insufficient information has been provided to provide a result for this test. Sire and Dam information and/or sample may be required. This result is mostly associated with tests that have a patent/license and therefore certain restrictions apply. Please contact the laboratory to discuss.

## **INDETERMINABLE**

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

## **DNA PROFILE**

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





# Glossary of Genetic Terms (Results)



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

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

## **PENDING**

PENDING

## **TRAIT (PHENOTYPE)**

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

## **POSITIVE – SHOWING THE PHENOTYPE**

The animal is showing the trait or phenotype tested.

## **CLARIFICATION OF GENETIC TESTING**

The goal of genetic testing is to provide breeders with relevant information to improve breeding practices in the interest of animal health. However, genetic inheritance is not a simple process, and may be complicated by several factors. Below is some information to help clarify these factors.

The goal of genetic testing is to provide breeders with relevant information to improve breeding practices in the interest of animal health. However, genetic inheritance is not a simple process, and may be complicated by several factors. Below is some information to help clarify these factors.

- 1) Some diseases may demonstrate signs of what Geneticists call "genetic heterogeneity". This is a term to describe an apparently single condition that may be caused by more than one mutation and/or gene
- 2) It is possible that there exists more than one disease that presents in a similar fashion and segregates in a single breed. These conditions -although phenotypically similar - may be caused by separate mutations and/or genes.
- 3) It is possible that the disease affecting your breed may be what Geneticists call an "oligogenic disease". This is a term to describe the existence of additional genes that may modify the action of a dominant gene associated with a disease. These modifier genes may for example give rise to a variable age of onset for a particular condition, or affect the penetrance of a particular mutation such that some animals may never develop the condition.

The range of hereditary diseases continues to increase and we see some that are relatively benign and others that can cause severe and/or fatal disease. Diagnosis of any disease should be based on pedigree history, clinical signs, history (incidence) of the disease and the specific genetic test for the disease. Penetrance of a disease will always vary not only from breed to breed but within a breed, and will vary with different diseases. Factors that influence penetrance are genetics, nutrition and environment. Although genetic testing should be a priority for breeders, we strongly recommend that temperament and phenotype also be considered when breeding.

Orivet Genetic Pet Care aims to frequently update breeders with the latest research from the scientific literature. If breeders have any questions regarding a particular condition, please contact us on (03) 9534 1544 or [admin@orivet.com](mailto:admin@orivet.com) and we will be happy to work with you to answer any relevant questions.

