

Animal Name: Dimmy

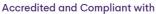
Owner:

Ryan Sevil

Membership Number : Not assigned

Member Body/Breed Club: Not assigned

Approved Collection Method: No



















No

SWAB



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Name:	Ryan Sevil	
Animal's Details		
Registered Name :		
Pet Name :	Dimmy	
Registration Number:		
Breed :	Cocker Spaniel	
Microchip Number:	95600001483996	
Sex:	Female	
Date of Birth :	21st Jan 2022	
Colour:	Dark Gold	
Sample Collection	Details	
Case Number:	23E04513	
Collected By:		

Test Details

Sample Type:

Approved Collection:

Test Requested :	Cocker Spaniel – Full Breed Profile
Pet Name :	Dimmy
Date of Test :	10th Mar 2023

Authorisation

Sample with Lab ID Number 23E04513 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

Chuel

George Sofronidis BSc (Hons)

N.ML



Dr Noam Pik BVSc, MAVS





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Animal's Details

Registered Name:							
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P1_2	A G	P3_2	A A	P3_3	G G	P11_3	СС	P12_1	G G	P24_2	A G	P12_3	G G	P30_3	A A
P13_1	C C	P24_3	СС	P31_1	A A	P28_3	A A	P31_3	G G	P25_1	G G	P32_2	CG	P13_2	A A
P13_3	A A	P25_2	A G	P25_3	СС	P32_3	A A	P33_1	A G	P14_1	TT	P10_1	G G	P26_1	A G
P33_3	G G	P26_2	A A	P14_2	C C	P26_3	G G	P14_3	A A	P15_1	G G	P34_1	A A	P34_2	A G
P34_3	A A	P10_3	A C	P15_2	A G	P15_3	СС	P16_3	G G	P35_1	G G	P35_2	G G	P36_1	A A
P17_1	A G	P36_2	СС	P37_2	A G	P17_2	A A	P29_1	CG	P37_3	G G	P38_1	СС	P38_2	A A
P27_1	C C	P17_3	A G	P27_2	A C	P4_3	A G	P18_2	СС	P18_3	A A	P5_1	G G	P11_1	A G
P19_1	T T	P19_2	G G	P5_2	G G	P19_3	G G	P2_1	G G	P2_3	СС	P27_3	A A	P20_1	A A
P20_3	A G	P5_3	G G	P11_2	C C	P6_2	A A	P6_3	СС	P21_1	A A	P21_3	A G	P22_2	СС
P28_1	G G	P7_1	C C	P7_2	A G	P28_2	CG	P7_3	A A	P29_2	G G	P8_1	G G	P22_3	G G
P8 2	ΔG	P8 3	ΔΔ	P23 1	0.0	PQ 3	тт	P23 2	0.0	P23 3	ΔG	P24 1	ΔG	P3 1	ΔG

Owner's Name: Ryan Sevil Pet Name: Dimmy



Animal's Details

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Registered Name :										
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Microchip Number	:	95600001483996								
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Colour:		Dark Gold								
BICF2G630103624	СС	BICF2G630111735	G G	BICF2G630122583	АА	BICF2G630133028	G G			
BICF2G630133994	A G	BICF2G630149030	АА	BICF2G630200354	A G	BICF2G630209886	A G			
BICF2G630220326	A G	BICF2G630221287	A G	BICF2G630264994	G G	BICF2G630276039	A A			
BICF2G630276136	A G	BICF2G630306265	A G	BICF2G630326688	G G	BICF2G630328172	G G			
BICF2G630328323	A A	BICF2G630367177	СС	BICF2G630409193	A G	BICF2G630453264	CG			
BICF2G630474528	A G	BICF2G630499189	A A	BICF2G630539759	G G	BICF2G630552597	A G			
BICF2G630653298	A G	BICF2G630666362	G G	BICF2G630691635	G G	BICF2G630704611	A A			
BICF2G630708384	G G	BICF2G630762459	СС	BICF2G63078341	G G	BICF2G63088115	G G			
BICF2P1010945	A A	BICF2P105070	A A	BICF2P1138733	G G	BICF2P1159837	A A			
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BICF2P1362405	GG	BICF2P1369088	A G	BICF2P1391407	G G	BICF2P164304	A A			
BICF2P184963	A A	BICF2P251850	A C	BICF2P277987	A G	BICF2P345488	A G			
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BICF2P651575	A A	BICF2P651577	G G	BICF2P70891	A C	BICF2P725743	CG			
BICF2P728698	A A	BICF2P789367	A A	BICF2P805553	G G	BICF2P840653	A G			
BICF2P885380	A G	BICF2P923421	A G	BICF2P950116	A G	BICF2P963969	A G			
BICF2P998036	A C	BICF2S22912385	A G	BICF2S22926284	G G	BICF2S22953709	A A			
BICF2S23018785	A A	BICF2S23111132	G G	BICF2S23138418	G G	BICF2S23141330	ΤT			
BICF2S23214514	A C	BICF2S23326150	A A	BICF2S23329382	СС	BICF2S23357186	CG			
BICF2S2338108	A A	BICF2S23434277	СС	BICF2S23529290	A G	BICF2S23535154	A G			
BICF2S23614068	A C	BICF2S2399705	A G	G1425f16S28	A A	TIGRP2P255960_rs9030578	A A			
TIGRP2P283310_rs8881748	A A	TIGRP2P328303_rs8531882	СС	TIGRP2P354499_rs9162547	A G	TIGRP2P356245_rs8830240	A C			

Owner's Name: Ryan Sevil Pet Name: Dimmy



Animal's Details

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Pet Name :		Dimmy					
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Breed :		Cocker Spanie	əl				
Microchip Number	:	95600001483	996				
Sex:		Female					
Date of Birth :		21st Jan 2022					
Colour:		Dark Gold					
BICF2G630102146	АА	BICF2G630149581	АА	BICF2G630159183	A G	BICF2G630170631	A C
BICF2G630187649	ТТ	BICF2G630187658	АА	BICF2G630204463	A G	BICF2G630209373	A G
BICF2G630209508	A G	BICF2G630255439	A G	BICF2G630271966	A G	BICF2G630274628	A G
BICF2G630307199	A C	BICF2G630340940	A G	BICF2G630340944	A G	BICF2G630365778	A C
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BICF2P1226838	АА	BICF2P1232055	АА	BICF2P1271174	A G	BICF2P129347	G G
BICF2P129670	G G	BICF2P1308802	A C	BICF2P1310805	СС	BICF2P1344095	A G
BICF2P1346673	A G	BICF2P1357746	A G	BICF2P1454500	G G	BICF2P155421	A C
BICF2P157421	АА	BICF2P182473	G G	BICF2P224656	СС	BICF2P237994	АА
BICF2P246592	A C	BICF2P250787	СС	BICF2P25730	ΤТ	BICF2P283440	АА
BICF2P285489	A G	BICF2P345056	АА	BICF2P347679	АА	BICF2P378969	АА
BICF2P382742	A G	BICF2P415783	A G	BICF2P422152	G G	BICF2P508740	C G
BICF2P516667	G G	BICF2P553317	A G	BICF2P554817	A G	BICF2P561057	A C
BICF2P585943	АА	BICF2P624936	G G	BICF2P635172	АА	BICF2P643134	АА
BICF2P65087	A G	BICF2P651576	G G	BICF2P717226	A C	BICF2P751654	A G
BICF2P774003	A C	BICF2P798404	АА	BICF2P842510	A G	BICF2P856893	A G
BICF2P878175	A G	BICF2P935470	A G	BICF2P990814	A G	BICF2S22910736	A G
BICF2S22913753	АА	BICF2S22928800	G G	BICF2S22943825	A G	BICF2S23028732	АА
BICF2S23031254	A C	BICF2S23049416	A G	BICF2S23057560	G G	BICF2S23124313	АА
BICF2S23126079	АА	BICF2S23246455	АА	BICF2S23250041	СС	BICF2S23356653	A G
BICF2S23429022	G G	BICF2S23449478	G G	BICF2S23519644	G G	BICF2S2351979	G G
BICF2S2359809	A G	BICF2S236196	A G	BICF2S23626625	C G	BICF2S23648905	G G
BICF2S23649947	A G	BICF2S23713161	G G	BICF2S23737033	АА	BICF2S24511913	G G
TIGRP2P106843_rs8858816	A G	BICF2S23333411	АА	TIGRP2P116826_rs8741680	A G	TIGRP2P164720_rs 8839809	A G
TIGRP2P177606_rs8886563	СС	TIGRP2P215708_rs 8686029	A T	TIGRP2P316532_rs8597522	A A	TIGRP2P372104_rs 9153277	G G
TIGRP2P402042_rs9121006	A G	TIGRP2P406551_rs9235397	A G	TIGRP2P407751_rs8803124	A C	BICF2G630646431	AA
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Owner's Name: Ryan Sevil Pet Name: Dimmy







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Sample with Lab ID Number 23E04513 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: ACRAL MUTILATION SYNDROME (SPANIEL & POINTER TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]¹

Gene: GDNF

Variant Detected: GDNF Regulatory

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: 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: BERNARD-SOULIER SYNDROME (COCKER SPANIEL TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED] 1

Gene: GP9 gene, chr20

Variant Detected: chr20:3025814-3028273del2460

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: Ryan Sevil Pet Name: Dimmy







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Sample with Lab ID Number 23E04513 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: EXERCISE INDUCED COLLAPSE (RETRIEVER TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]¹

Gene: DNM1

Variant Detected: Base Substitution c.767 G>T

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

Test Reported: PHOSPHOFRUCTOKINASE DEFICIENCY (SPANIEL TYPE)

Result: NEGATIVE / CLEAR [NO VARIANT DETECTED]¹

Gene: Phosphofructokinase muscle (PFKM) on Chromosome 27 **Variant Detected**: Base Substitutionc.2228G>Ap.Trp743STOP

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: POLYDACTYL/DEWCLAWS

Result: PD/PD - NORMAL, TYPICAL CLAWS (TOES) NO HINDCLAWS¹

Gene: LMBR1

Variant Detected: chr16:19380592 (canFam3): G/A

Owner's Name : Ryan Sevil Pet Name : Dimmy







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Sample with Lab ID Number 23E04513 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

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

Result: POSITIVE / AT RISK [TWO COPIES OF THE VARIANT DETECTED]¹

Gene: Photoreceptor disc component (PRCD) on Chromosome 9

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

We have scanned your animal's DNA and two copies of the disease associated variant (mutation) has been detected. The genotype of the animal tested is POSITIVE this result may also be referred to as HOMOZYGOUS, AFFECTED, A/A or "+/+". The animal is "AT-RISK" and MAY show the symptoms (affected) associated with the disease. Penetrance can vary within breed. Appropriate treatment should be pursued by consulting a Veterinarian. Mating with a genetically CLEAR/NORMAL animal will produce 100% CARRIER offspring.

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

Result: e/e - HOMOZYGOUS FOR NON-EXTENSION [WHITE/YELLOW/APRICOT/WHEATEN]¹

Gene: MC1R

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

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

Test Reported: EM (MC1R) LOCUS - MELANISTIC MASK

Result: Eⁿ/Eⁿ - NO MELANISTIC MASK (Eⁿ) EXTENSION ALLELE¹

Gene: MC1R

Variant Detected: Base Substitution G>A

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

Owner's Name: Ryan Sevil Pet Name: Dimmy







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Sample with Lab ID Number 23E04513 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: I LOCUS COLOUR INTENSITY

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

Gene: MFSD12

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

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

Test Reported: BROWN (345DELPRO) DELETION

Result: Bd/bd - 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 (GLNT331STOP) STOP CODON

Result: BS/BS - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [STOP CODON]

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: Ryan Sevil Pet Name: Dimmy







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Sample with Lab ID Number 23E04513 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: BROWN (SER41CYS) INSERTION CODON

Result: BC/bC- CARRIER OF BROWN/LIVER/RED/CHOCOLATE [INSERTION]

Gene: TYRP1

Variant Detected: Base Substitution (Point Mutation)

One copy of brown insertion 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: LIVER [TYRP1] (LANCASHIRE HEELER TYPE)

Result: Be/Be - DOES NOT CARRY BROWN/LIVER [TYRP1]

Gene:

Variant Detected:

Test Reported: D (DILUTE) LOCUS

Result: D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL¹

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: Ryan Sevil Pet Name: Dimmy







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Sample with Lab ID Number 23E04513 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] 1

Gene: CBD103

Variant Detected: Deletion of GGG

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

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

Result: at/at - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]

Gene: ASIP

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

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

Test Reported: 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: Ryan Sevil Pet Name: Dimmy







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Sample with Lab ID Number 23E04513 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: MERLE

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: BLACK HAIR FOLLICULAR DYSPLASIA

Result: NEGATIVE - NOT SHOWING THE PHENOTYPE¹

Gene: RAB27

Variant Detected: Base Substitution G>A

Test Reported: SHEDDING (MC5R)

Result:

SHD/SHD [LOW SHEDDING] - NO COPIES OF THE SHEDDING (MC5R) VARIANT DETECTED [REFER TO R151W (IC) FOR LEVEL]

1

Gene: MC5R

Variant Detected:

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

Owner's Name: Ryan Sevil Pet Name: Dimmy







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Sample with Lab ID Number 23E04513 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported: COAT COMPOSITION CFA28 GENE (DOUBLE/SINGLE COAT)

Result: UDC/UDC - NO COPY OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED1

Gene: CFA28

Variant Detected:

Dog has a single coat usually associated with no undercoat. Hair length can be short or long.

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

Result:

NEGATIVE FOR THE KRT71 R151W (CU/CU) VARIANT - NOT SHOWING THE 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: Ryan Sevil Pet Name: Dimmy



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 HET EROZYGOUS [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.

INDET ERMINABLE

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)



I accept terms of service and privacy policy!

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.