GENETIC ANALYSIS REPORT



OWNER'S DETAILS

Jennifer Parker

COLLECTION DETAILS

Case Number : 21ATTC02356 Date of Test : 7th May 2021

Collected By

Approved Collection: NO

ANIMAL'S DETAILS

Registered Name

Pet Name : Cricket

Registration Number:

Breed : Border Collie

Microchip Number

Sex : Intact Female Date of Birth : 12th Mar 2020

Colour

Sample with Lab ID Number 21ATTC02356 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

GENETIC ANALYSIS SUMMARY

TESTS REPORTED

RESULT 1

Urinary system / Urologic - Associated with the kidneys, bladder, ureters and urethra

2.8-DIHYDROXYADENINE UROLITHIASIS TYPE IA

ALPORT SYNDROME/ HEREDITARY NEPHROPATHY (SAMOYED

TYPE)

AUTOSOMAL HEREDITARY RECESSIVE NEPHROPATHY

CYSTINURIA (MINIATURE PINSCHER TYPE)

CYSTINURIA (NEWFOUNDLAND TYPE)

CYSTINURIA (SLC3A1) (AUSTRALIAN CATTLE DOG TYPE)

CYSTINURIA (SLC3A1) LABRADOR RETRIEVER TYPE

FAMILIAL NEPHROPATHY

GLOMERULOPATHY (PLN) KIRREL2

GLOMERULOPATHY (PLN) NPHS1

HEREDITARY NEPHROPATHY

PRIMARY HYPEROXALURIA

HYPERURICOSURIA

RENAL CYSTADENOCARCINOMA AND NODULAR

DERMATOFIBROSIS (GERMAN SHEPHERD TYPE)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Ophthalmologic - Associated with the eyes and associated structures

ACHROMATOPSIA (POINTER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED]

CANINE MULTIFOCAL RETINOPATHY CMR2 (COTON DU TULEAR NEGATIVE / CLEAR [NO VARIANT DETECTED]

CANINE MULTIFOCAL RETINOPATHY CMR3 (LAPPHUND TYPE)

COLLIE EYE ANOMALY/CHOROIDAL HYPOPLASIA

CONE DEGENERATION

CONE-ROD DYSTROPHY I - PRA (CORD I)

CONGENITAL STATIONARY NIGHT BLINDNESS

CURLY COAT DRY EYE SYNDROME (CAVALIER TYPE)

FOCAL EPILEPSY

GENERALISED PRA (SCHAPENDOES TYPE)

GENERALISED PRA 1 (GOLDEN RETRIEVER TYPE)

GENERALISED PRA 2 (GOLDEN RETRIEVER TYPE)

GONIODYSGENESIS AND GLAUCOMA (BORDER COLLIE)

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

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

¹ Please Note: This is a summary disease and trait report. To view more details on each test, including a DNA profile, please log in to your account and view the detailed single DNA report.

HEREDITARY CATARACT	NEGATIVE / CLEAR [NO VARIANT DETECTED]
MACULAR CORNEAL DYSTROPHY (LABRADOR TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
MICROPHTHALMIA, ANOPHTHALMIA & COLOBOMA (WHEATEN TERRIER TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
MULTIFOCAL RETINOPATHY CMR1 (MASTIFF/BULL BREEDS TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PRIMARY GLAUCOMA	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PRIMARY LENS LUXATION	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PRIMARY OPEN ANGLE GLAUCOMA (BEAGLE TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PROGRESSIVE RETINAL ATROPHY - LATE ONSET (BASENJI TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PROGRESSIVE RETINAL ATROPHY - RCD3 (CORGI/CRESTED TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PROGRESSIVE RETINAL ATROPHY (MASTIFF)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PROGRESSIVE RETINAL ATROPHY (PULI TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PROGRESSIVE RETINAL ATROPHY 3	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PROGRESSIVE RETINAL ATROPHY DOMINANT (MASTIFF TYPE)	
PROGRESSIVE RETINAL ATROPHY PRA1 (PAPILLON TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PROGRESSIVE ROD CONE DEGENERATION (PRCD) - PRA	NEGATIVE / CLEAR [NO VARIANT DETECTED]
RETINAL DEGENERATION (NORWEGIAN ELKHOUND TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
RETINAL DEGENERATION RCD1A	NEGATIVE / CLEAR [NO VARIANT DETECTED]
TYPE A PRA 1 (MINIATURE SCHNAUZER TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
X-LINKED PRA (SAMOYED/HUSKY TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
A-LINKED FIVA (SAMOTED/HOSKI TIFE)	NEGATIVE / CLEAN [NO VANIANT DETECTED]
Respiratory - Associated with the lungs and respira	atory system
ACUTE RESPIRATORY DISTRESS SYNDROME (DALMATIAN TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PRIMARY CILIARY DYSKINESIA (OLD ENGLISH SHEEPDOG TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
Dental - Associated with the teeth and associated s	etructuras
AMELOGENESIS IMPERFECTA (ITALIAN GREYHOUND TYPE) RAINE SYNDROME DENTAL HYPOMINERALISATION (BORDER	NEGATIVE / CLEAR [NO VARIANT DETECTED]
RAINE STRUKURIE DENTAL DTPURINERALISATIUN IDUKUER	NEGATIVE / OLEAD BLO MADIANT BETEGTED!
	NEGATIVE / CLEAR [NO VARIANT DETECTED]
COLLIE)	
COLLIE) Nervous system / Neurologic - Associated with the	brain, spinal cord and nerves
COLLIE) Nervous system / Neurologic - Associated with the BRAIN HYPOMYELINATION (WEIMARANER TYPE)	
COLLIE) Nervous system / Neurologic - Associated with the	brain, spinal cord and nerves
COLLIE) Nervous system / Neurologic - Associated with the BRAIN HYPOMYELINATION (WEIMARANER TYPE) CANINE MULTIPLE SYSTEM DEGENERATION (CHINESE	brain, spinal cord and nerves NEGATIVE / CLEAR [NO VARIANT DETECTED]
COLLIE) Nervous system / Neurologic - Associated with the BRAIN HYPOMYELINATION (WEIMARANER TYPE) CANINE MULTIPLE SYSTEM DEGENERATION (CHINESE CRESTED) CEREBELLAR ATAXIA (AMERICAN STAFFORDSHIRE TERRIER	brain, spinal cord and nerves NEGATIVE / CLEAR [NO VARIANT DETECTED] NEGATIVE / CLEAR [NO VARIANT DETECTED]
Nervous system / Neurologic - Associated with the BRAIN HYPOMYELINATION (WEIMARANER TYPE) CANINE MULTIPLE SYSTEM DEGENERATION (CHINESE CRESTED) CEREBELLAR ATAXIA (AMERICAN STAFFORDSHIRE TERRIER TYPE) CEREBELLAR ATAXIA (FINNISH HOUND TYPE) CEREBELLAR CORTICAL DEGENERATION (HUNGARIAN VIZSLA TYPE)	brain, spinal cord and nerves NEGATIVE / CLEAR [NO VARIANT DETECTED] NEGATIVE / CLEAR [NO VARIANT DETECTED] NEGATIVE / CLEAR [NO VARIANT DETECTED]
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Nervous system / Neurologic - Associated with the BRAIN HYPOMYELINATION (WEIMARANER TYPE) CANINE MULTIPLE SYSTEM DEGENERATION (CHINESE CRESTED) CEREBELLAR ATAXIA (AMERICAN STAFFORDSHIRE TERRIER TYPE) CEREBELLAR ATAXIA (FINNISH HOUND TYPE) CEREBELLAR CORTICAL DEGENERATION (HUNGARIAN VIZSLA TYPE) CONGENITAL MYASTHENIC SYNDROME (JACK RUSSELL TERRIER TYPE) CONGENITAL MYASTHENIC SYNDROME (LABRADOR RETRIEVER TYPE) CONGENITAL MYASTHENIC SYNDROME (OLD DANISH POINTER TYPE) DEGENERATIVE MYELOPATHY ENCEPHALOPATHY (ALASKAN HUSKY TYPE) EPISODIC FALLING SYNDROME (CAVALIER TYPE) EXERCISE INDUCED COLLAPSE (RETRIEVER TYPE) GENERALISED MYOCLONIC EPILEPSY (RHODESIAN RIDGEBAC TYPE) HEREDITARY ATAXIA (AUTOPHAGY) IVERMECTIN SENSITIVITY MDR1 (MULTI DRUG RESISTANCE) JUVENILE EPILEPSY (BENIGN FAMILIAL) - LAGOTTO ROMAGNOLO TYPE L2- HYDROXYGLUTARIC ACIDURIA LEUKOENCEPHALOMYELOPATHY (LEONBERGER TYPE) NARCOLEPSY (DACHSHUND TYPE)	brain, spinal cord and nerves NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEORATAL ENCEPHALOPATHY (POODLE TYPE) NEUROAXONAL DYSTROPHY (CANE CORSO TYPE) NEUROAXONAL DYSTROPHY (CANE CORSO TYPE) NEUROAXONAL DYSTROPHY (POPTLUEN TYPE) NEUROAXONAL DYSTROPHY (POTTWEILER TYPE) NEUROAXONAL CEROID LIPOFUSCINOSIS IS (DACHSHUND TYPE) NEUROAXONAL CEROID LIPOFUSCINOSIS IS (DACHSHUND TYPE) NEUROAXONAL CEROID LIPOFUSCINOSIS IS (DACHSHUND TYPE) NEUROAXONAL CEROID LIPOFUSCINOSIS IS (BORDER COLLE TYPE) POLYHEUROPATHY (NDRG1) (ALBEAN MALAMUTE) NEUROAXONAL CEROID LIPOFUSCINOSIS IS (BORDER COLLE TYPE) POLYHEUROPATHY (NDRG1) (ALBEAN MALAMUTE) NEUROAXONAL CEROID LIPOFUSCINOSIS IS (BORDER TATION IN THE TYPE) POLYHEUROPATHY (DARGER TYPE) NEGATIVE / CLEAR (NO VARIANT DETECTED) NEGATIVE / CLEAR (NO VARIANT DETECT	NEONATAL CEREBELLAR CORTICAL DEGENERATION (BEAGLE	NEGATIVE / CLEAR [NO VARIANT DETECTED]
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CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE II (GERMAN WATER) NEGATIVE / CLEAR [NO VARIANT DETECTED] NEGATIVE / CLEAR [NO VARI	· · · · · · · · · · · · · · · · · · ·	
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RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN/NORFOLK TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION NEGATIVE / CLEAR [NO VARIANT DETECTED] POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE I VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE III CON WILLEBRAND'S DISEASE TYPE III NEGATIVE / CLEAR [NO VARIANT DETECTED] IMMUNOLOGIC - Associated with the organs and cells of the immune system CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE II (GERMAN WATER) NEGATIVE / CLEAR [NO VARIANT DETECTED]	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND,	
GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA A / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX (GAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III (GERMAN WIREHAIRED POINTER	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA	NEGATIVE / CLEAR [NO VARIANT DETECTED]
REY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA A / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E HAEMOPHILIA B / FACTOR IX (CAIRN/NORFOLK TERRIER TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN/NORFOLK TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN/NORFOLK TERRIER TYPE) HAEMOPH / CLEAR [NO VARIANT DETECTED] HAEMOPHILI	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED] NEGATIVE / CLEAR [NO VARIANT DETECTED] NEGATIVE / CLEAR [NO VARIANT DETECTED]
HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE III (GERMAN SHEPHERD TYPE) SEVERE COMBINED IMMUNODEFICIENCY (FRISIAN WATER) NEGATIVE / CLEAR (NO VARIANT DETECTED)	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY	NEGATIVE / CLEAR [NO VARIANT DETECTED]
HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE II (GERMAN SHEPHERD TYPE) CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE III (GERMAN WIREHAIRED TYPE) SEVERE COMBINED IMMUNODEFICIENCY (FRISIAN WATER) NEGATIVE / CLEAR [NO VARIANT DETECTED]	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE	NEGATIVE / CLEAR [NO VARIANT DETECTED]
HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE I VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE I	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3	NEGATIVE / CLEAR [NO VARIANT DETECTED]
MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE I VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III NEGATIVE / CLEAR [NO VARIANT DETECTED]	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE I VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III (MERMAN WIREHAIRED POINTER) NEGATIVE / CLEAR (NO VARIANT DETECTED)	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE I VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III (GERMAN WIREHAIRED POINTER) NEGATIVE / CLEAR [NO VARIANT DETECTED] MEGATIVE / CLEAR [NO VARIANT DETECTED] MEGATIVE / CLEAR [NO VARIANT DETECTED] NEGATIVE / CLEAR [NO VARIANT DETECTED]	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E	NEGATIVE / CLEAR [NO VARIANT DETECTED]
(MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE I VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III (MEGATIVE / CLEAR (NO VARIANT DETECTED) WEGATIVE / CLEAR (NO VARIANT DETECTED) NEGATIVE / CLEAR (NO VARIANT DETECTED) NEGATIVE / CLEAR (NO VARIANT DETECTED) NEGATIVE / CLEAR (NO VARIANT DETECTED) WEGATIVE / CLEAR (NO VARIANT DETECTED) NEGATIVE / CLEAR (NO VARIANT DETECTED) NEGATIVE / CLEAR (NO VARIANT DETECTED) NEGATIVE / CLEAR (NO VARIANT DETECTED) WEGATIVE / CLEAR (NO VARIANT DETECTED) NEGATIVE / CLEAR (NO VARIANT DETECTED)	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED] ENEGATIVE / CLEAR [NO VARIANT DETECTED]
SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE I VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III (GERMAN WIREHAIRED POINTER) NEGATIVE / CLEAR [NO VARIANT DETECTED] VEGATIVE / CLEAR [NO VARIANT DETECTED]	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE I VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III VON WILLEBRAND'S DISEASE TYPE III NEGATIVE / CLEAR [NO VARIANT DETECTED]	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED] ENEGATIVE / CLEAR [NO VARIANT DETECTED] NEGATIVE / CLEAR [NO VARIANT DETECTED]
VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III NEGATIVE / CLEAR [NO VARIANT DETECTED] MEGATIVE / CLEAR [NO VARIANT DETECTED] NEGATIVE / CLEAR [NO VARIANT DETECTED]	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED] E) NEGATIVE / CLEAR [NO VARIANT DETECTED]
VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III NEGATIVE / CLEAR [NO VARIANT DETECTED] Immunologic - Associated with the organs and cells of the immune system CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE I (IRISH SETTER TYPE) CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE III (GERMAN SHEPHERD TYPE) SEVERE COMBINED IMMUNODEFICIENCY (FRISIAN WATER	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III NEGATIVE / CLEAR [NO VARIANT DETECTED] Immunologic - Associated with the organs and cells of the immune system CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE I (IRISH SETTER TYPE) CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE III (GERMAN SHEPHERD TYPE) SEVERE COMBINED IMMUNODEFICIENCY (FRISIAN WATER	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE)	NEGATIVE / CLEAR [NO VARIANT DETECTED] E) NEGATIVE / CLEAR [NO VARIANT DETECTED]
VON WILLEBRAND'S DISEASE TYPE III Immunologic - Associated with the organs and cells of the immune system CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE I (IRISH SETTER TYPE) CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE III (GERMAN SHEPHERD TYPE) SEVERE COMBINED IMMUNODEFICIENCY (FRISIAN WATER	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE I	NEGATIVE / CLEAR [NO VARIANT DETECTED]
CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE I (IRISH SETTER TYPE) CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE III (GERMAN SHEPHERD TYPE) SEVERE COMBINED IMMUNODEFICIENCY (FRISIAN WATER	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED	NEGATIVE / CLEAR [NO VARIANT DETECTED]
CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE I (IRISH SETTER TYPE) CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE III (GERMAN SHEPHERD TYPE) SEVERE COMBINED IMMUNODEFICIENCY (FRISIAN WATER	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II (GERMAN WIREHAIRED POINTER)	NEGATIVE / CLEAR [NO VARIANT DETECTED]
CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE III (GERMAN NEGATIVE / CLEAR [NO VARIANT DETECTED] SHEPHERD TYPE) SEVERE COMBINED IMMUNODEFICIENCY (FRISIAN WATER	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE III VON WILLEBRAND'S DISEASE TYPE III VON WILLEBRAND'S DISEASE TYPE III VON WILLEBRAND'S DISEASE TYPE IIII	NEGATIVE / CLEAR [NO VARIANT DETECTED]
SEVERE COMBINED IMMUNODEFICIENCY (FRISIAN WATER	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE III IMMUNOLOGIC - Associated with the organs and cell CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE I (IRISH	NEGATIVE / CLEAR [NO VARIANT DETECTED]
	CANINE CHONDRODYSPLASIA (NORWEGIAN ELKHOUND, KARELIAN BEAR) CONGENITAL MACROTHROMBOCYTOPENIA ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR RETRIEVER/POODLE TYPE) FACTOR VII DEFICIENCY GLOBOID CELL LEUKODYSTROPHY/KRABBE'S DISEASE GREY COLLIE SYNDROME (CYCLIC HEMATOPOIESIS) AP3 HAEMOPHILIA A / FACTOR VIII (GERMAN SHEPHERD TYPE) HAEMOPHILIA B / FACTOR IX (CAIRN TERRIER TYPE) HAEMOPHILIA B / FACTOR IX G418E MACROTHROMBOCYTOPENIA (CAIRN/NORFOLK TERRIER TYPE) MAY-HEGGLIN ANOMALY (PUG TYPE) PLATELET DYSFUNCTION POST OPERATIVE HAEMORRHAGE / PLATELET DISORDER (MOUNTAIN DOG TYPE) PREKALLIKREIN DEFICIENCY (SHIH TZU TYPE) SCOTT SYNDROME (GERMAN SHEPHERD TYPE) THROMBASTHENIC THROMBOPATHIA (OTTERHOUND TYPE) VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE II VON WILLEBRAND'S DISEASE TYPE III (GERMAN WIREHAIRED POINTER) VON WILLEBRAND'S DISEASE TYPE III IMMUNOLOGIC - Associated with the organs and cell CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE I (IRISH SETTER TYPE) CANINE LEUKOCYTE ADHESION DEFICIENCY TYPE III (GERMAN	NEGATIVE / CLEAR [NO VARIANT DETECTED]

TRAPPED NEUTROPHIL SYNDROME (BORDER COLLIE TYPE) CARRIER [ONE COPY OF THE VARIANT DETECTED] Metabolic - Associated with the enzymes and metabolic processes of cells CATALASE DEFICIENCY (BEAGLE TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] COBALAMIN MALABSORPTION (BEAGLE TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] COBALAMIN MALABSORPTION: CUBILIN DEFICIENCY (BORDER NEGATIVE / CLEAR [NO VARIANT DETECTED] COLLIE TYPE) FUCOSIDOSIS (ENGLISH SPRINGER SPANIEL TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] GANGLIOSIDOSIS (PORTUGUESE WATER DOG TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] GANGLIOSIDOSIS GM1 GLB1 (SHIBA INU TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] GANGLIOSIDOSIS GM2 (JAPANESE CHIN TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] GANGLIOSIDOSIS GM2 (POODLE TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] GANGLIOSIDOSIS GM2 HEXB (SHIBA INU TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] GLYCOGEN STORAGE DISEASE IA (MALTESE TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] GLYCOGEN STORAGE DISEASE III NEGATIVE / CLEAR [NO VARIANT DETECTED] GLYCOGEN STORAGE DISEASE IIIA (CURLY COAT RETRIEVER NEGATIVE / CLEAR [NO VARIANT DETECTED] TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MALIGNANT HYPERTHERMIA MUCOPOLYSACCHARIDOSIS (HUNTAWAY TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MUCOPOLYSACCHARIDOSIS TYPE I (PLOTT HOUND TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MUCOPOLYSACCHARIDOSIS VI (GREAT DANE TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MUCOPOLYSACCHARIDOSIS VI (POODLE TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MUCOPOLYSACCHARIDOSIS VII - TYPE II (GERMAN NEGATIVE / CLEAR [NO VARIANT DETECTED] SHEPHERD/BELGIAN SHEPHERD TYPE) PHOSPHOFRUCTOKINASE DEFICIENCY (GERMAN SPANIEL) NEGATIVE / CLEAR [NO VARIANT DETECTED] POMPES DISEASE (LAPPHUND TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] PYRUVATE DEHYDROGENASE PHOSPHATASE DEFICIENCY NEGATIVE / CLEAR [NO VARIANT DETECTED] (CLUMBER SPANIEL TYPE) PYRUVATE KINASE DEFICIENCY (BEAGLE TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] PYRUVATE KINASE DEFICIENCY (CANINE) NEGATIVE / CLEAR [NO VARIANT DETECTED] PYRUVATE KINASE DEFICIENCY (LABRADOR TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] PYRUVATE KINASE DEFICIENCY (PUG) NEGATIVE / CLEAR [NO VARIANT DETECTED] Musculoskeletal - Associated with muscles, bones and associated structures CENTRONUCLEAR MYOPATHY (LABRADOR RETRIEVER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] CENTRONUCLEAR MYOPATHY /INHERITED MYOPATHY (GREAT NEGATIVE / CLEAR [NO VARIANT DETECTED] DANE TYPE NEGATIVE / CLEAR [NO VARIANT DETECTED] CHONDRODYSPLASIA ITGA10 (ELKHOUND TYPE) CRANIOMANDIBULAR OSTEOPATHY (TERRIER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MILD DISPROPORTIONATE DWARFISM (LABRADOR TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MUSCULAR DYSTROPHY (LANDSEER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MYOTONIA CONGENITA (MINIATURE SCHNAUZER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MYOTONIA CONGENITA CLCN1 (CATTLE DOG TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MYOTONIA HEREDITARIA (CATTLE DOG TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] MYOTUBULAR MYOPATHY X-LINKED NEGATIVE / CLEAR [NO VARIANT DETECTED] MYOTUBULAR MYOPATHY X-LINKED (LABRADOR RETRIEVER NEGATIVE / CLEAR [NO VARIANT DETECTED] TYPE) MYOTUBULAR MYOPATHY X-LINKED (ROTTWEILER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] OSTEOGENESIS IMPERFECTA (CHOW CHOW) NEGATIVE / CLEAR [NO VARIANT DETECTED] OSTEOGENESIS IMPERFECTA (GOLDEN RETRIEVER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] OSTEOGENESIS IMPERFECTA SERPINH1 (DACHSHUND TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED] SKELETAL DYSPLASIA 2 (MILD DISPROPORTIONATE NEGATIVE / CLEAR [NO VARIANT DETECTED] DWARFISM) Ontogeny / ontogenesis (or simply developmental) - Developmental (Diseases associated with in-utero development) CLEFT LIP PALATE (NOVA SCOTIA DUCK TOLLING RETRIEVER NEGATIVE / CLEAR [NO VARIANT DETECTED] TYPE) Endocrine - Associated with hormone-producing organs

CONGENITAL HYPOTHYROIDISM WITH GOITER (TENTERFIELD TERRIER TYPE)

CONGENITAL HYPOTHYROIDISM WITH GOITER (TOY FOX TERRIER TYPE)

PITUITARY DWARFISM - SINGLE ASSAY TEST

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Dermatologic	- Associated	with the skin
Dellilatologic	- ASSOCIATED	WILLI LIIC SKIII

DYSTROPHIC EPIDERMOLYSIS BULLOSA (ASIAN SHEPHERD TYPE)

DYSTROPHIC EPIDERMOLYSIS BULLOSA (GOLDEN RETRIEVER TYPE)

ECTODERMAL DYSPLASIA (CHESAPEAKE BAY RETRIEVER

TYPE)

HEREDITARY FOOTPAD HYPERKERATOSIS

HEREDITARY NASAL PARAKERATOSIS/DRY NOSE (LABRADOR

RETRIEVER TYPE)

ICHTHYOSIS (AMERICAN BULLDOG) ICHTHYOSIS (GERMAN SHEPHERD TYPE)

ICHTHYOSIS (GREAT DANE) ICHTHYOSIS (NORFOLK TERRIER)

ICHTHYOSIS A (GOLDEN RETRIEVER) MUSLADIN-LUEKE SYNDROME (BEAGLE TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED]

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

Digestive system / Gastrointestinal - Associated with the organs and structures of the digestive system

GALL BLADDER MUCOCELE FORMATION (SHETLAND

SHEEPDOG TYPE)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Reproductive - Associated with the reproductive tract

MULLERIAN DUCT SYNDROME (MINIATURE SCHNAUZER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED]

Trait (Associated with Phenotype)

E LOCUS - (CREAM/RED/YELLOW)

E LOCUS (CATTLE DOG CREAM VARIANT) E2

E LOCUS (ARTIC BREEDS PALE/YELLOW/WHITE VARIANT) E3

EM (MC1R) LOCUS - MELANISTIC MASK

EG LOCUS (GRIZZLE)

BROWN (345DELPRO) DELETION

BROWN (GLNT331STOP) STOP CODON

BROWN (SER41CYS) INSERTION CODON

LIVER [TYRP1] (LANCASHIRE HEELER TYPE)

D (DILUTE) LOCUS

DILUTE D2 VARIANT (CHOW CHOW TYPE)

K LOCUS (DOMINANT BLACK)

A LOCUS (FAWN/SABLE;TRI/TAN POINTS)

SPOTTING (W) LOCUS (MASTIFF TYPE)

HARLEQUIN (H) PATTERN (GREAT DANE TYPE)

LONG HAIR GENE (CANINE C95F)

SHEDDING (MC5R)

COAT COMPOSITION CFA28 GENE (DOUBLE/SINGLE COAT)

CURLY COAT/HAIR CURL (KRT71 R151W)

NATURAL BOB TAIL (SHORT TAIL PHENOTYPE)

OCULOCUTANEOUS ALBINISM*

OCULOCUTANEOUS ALBINISM (BULLMASTIFF)

E/E - DOMINANT BLACK DOES NOT CARRY

YELLOW/RED/WHITE

E²/E² - DOMINANT BLACK DOES NOT CARRY "AUSTRALIAN

CATTLE DOG" TYPE CREAM

E3/E3 - DOMINANT BLACK DOES NOT CARRY "HUSKY TYPE"

PALE YELLOW/WHITE

E^m/Eⁿ - ONE COPY OF MASK ALLELE DETERMINED BY A

SERIES

Eg/Eg - NO GRIZZLE PHENOTYPE

Bd/Bd - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE

[DELETION]

bs/bs - BROWN/CHOCOLATE, LIVER OR RED [STOP CODON]

B°/B° - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE

[INSERTION]

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

D/d - CARRIER OF DILUTE [WILL HAVE NORMAL PIGMENT]

D²/D² - NO COPY OF d2 ALLELE (DILUTE) - PIGMENT IS NORMAL

ky/ky - RECESSIVE NON- BLACK [COLOUR PATTERN

DETERMINED BY A LOCUS]

at/at - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE

BRINDLED [SEE K LOCUS]

NEGATIVE - NOT SHOWING THE PHENOTYPE

h/h - DOES NOT CARRY ANY HARLEQUIN PATTERN

POSITIVE - SHOWING THE PHENOTYPE

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

SHEDDING

udc/udc - TWO COPIES OF THE DOUBLE COAT (DENSE

UNDERCOAT) PHENOTYPE DETECTED

NEGATIVE FOR THE KRT71 R151W (C1) VARIANT - NOT

SHOWING THE CURLY COAT PHENOTYPE

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE - NOT SHOWING THE PHENOTYPE

NEGATIVE - NOT SHOWING THE PHENOTYPE

RESULTS REVIEWED & CONFIRMED BY:

Dr. Noam Pik BVSc, BMVS, MBA, MACVS

George Sofronidis BSc(Hons)

ORIVET GENETIC PET CARE

Suite 102A/ 163 - 169 Inkerman Street, St Kilda 3182, Australia t +61 3 9534 1544 | f +61 3 9525 3550 e admin@orivet.com www.orivet.com

ORIVET INTERNATIONAL - USA

20 Church Street, Hartford, CT 06103 t +844-4 ORIVET (Ext. 105) e usa@orivet.com www.orivet.com

ORIVET INTERNATIONAL - JAPAN

3-6-2, Kumata, Higashisumiyoshi-ku, Osaka-shi, Osaka 546-0002, Japan t 080 8312 41187 (Japan) e japan@orivet.com.au www.orivet.jp



Authentication Code

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EXPLANATION of RESULT TERMINOLOGY

The terms below are provided to help clarify certain results phrases on your genetic report. The phrases below are those as reported by Orivet and may vary from one laboratory to the other.

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.

POSITIVE HOMOZYGOUS [TWO COPIES OF THE DOMINANT VARIANT DETECTED]

Also referred to as POSITIVE HOMOZYGOUS. Two copies of the disease gene variant (mutant) have been detected and the animal may show symptoms associated with the disease. Please Note: This disease has dominant mode of inheritance so if mated to a clear animal ALL offspring with be AFFECTED – HETEROZYGOUS ONE COPY.

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.

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

Results for this test are still being processed. Some tests are run independently and are reported at a later date. When completed, the result will be emailed.

APPROVED COLLECTION METHOD (NO)

The sample submitted for testing HAS NOT met the requirements recommended by member bodies for the DNA collection process.

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.

- 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.

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