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VETERINARY GENETICS LABORATORY
SCHOOL OF VETERINARY MEDICINE
ONE SHIELDS AVENUE
DAVIS, CALIFORNIA 95616-8744

TELEPHONE: (530) 752-2211
FAX: (530) 752-3556

PKD1 AND PERSIAN DERIVED PRA REPORT

GREG STAPLES
1014 SNIDER'S BAY ROAD
GRAVENHURST ONTARIO P1P 1R2
CANADA

Case: **CAT119607**
Date Received: 21-Nov-2019
Print Date: 26-Nov-2019
Report ID: 1760-1205-9090-0197
Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Cat: **MINOOS' BARTEMIUS CROUCH** *Reg:* **MCO07EXX1-55604**
DOB: **04/08/2019** *Sex:* **Male** *Breed:* **Maine Coon** *Microchip:* **939000007213023** *Color:* **Red classic tabby**

Sire: RAYDUSOLEIL STACKER PENTECOST *Reg:* MCO25EMX1-50357
Dam: MINOOS' SILKE MALONE *Reg:* MCO12XXX2-50792

PKD1 Result	PRA-pd Result
N/N	Not Requested

PKD1 Result Codes:

N/P Affected - 1 copy of the PKD1 gene, cat has or will develop PKD. Severity of symptoms cannot be predicted*

N/N Normal - Does not possess the disease-causing PKD1 gene.

The disease is inherited as an autosomal dominant trait, which means that a heterozygote (N/P) bred to a normal (N/N) will result in approximately half of the offspring being affected and half being normal. There are no observed homozygous affected (P/P), which suggests that the mutation is embryonic lethal.

*If your cat tests positive for PKD1, we recommend that you contact your veterinarian for information on disease progression and management.

PRA-pd Result Codes:

N/N	N/N - Normal - no copies of the PRA-pd mutation.
N/PRApd	Carrier - 1 copy of the PRA-pd mutation; vision appears normal. Breeding between carriers is expected to produce 25% affected kittens.
PRApd/PRApd	Affected - 2 copies of the PRA-pd mutation; cat will go blind.

For more information on PKD1 and PRA-pd test results, please go to:
www.vgl.ucdavis.edu/services/pkd1.php
www.vgl.ucdavis.edu/services/cat/PRApd.php

IDENTITY MARKERS

LOCUS	TYPE	LOCUS	TYPE
FCA075	S	*FCA220*	L
FCA223	WX	*FCA678*	J
FCA698	S		

The PKD1 test is performed under a license agreement with the University of California.

DNA ANALYSIS CERTIFICATE

MINOOS' BARTEMIUS CROUCH

Breed: Maine Coon
Sex: Male
Color: Red classic tabby
DOB: 04/08/2019
Reg: MCO07EXX1-55604
Alt. ID: 939000007213023

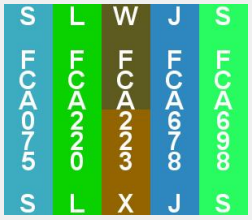
Case: CAT119607
Print Date: November 26, 2019
Report ID: 1760-1205-9090-0197

PKD1 Result

N/N

Does not possess the disease-causing PKD1 gene.

Identity Panel



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GREG STAPLES
1014 SNIDER'S BAY ROAD
GRAVENHURST ONTARIO P1P 1R2
CANADA

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PK DEFICIENCY AND IDENTITY MARKER REPORT

GREG STAPLES
1014 SNIDER'S BAY ROAD
GRAVENHURST ONTARIO P1P 1R2
CANADA

Case: **CAT119607**
Date Received: 21-Nov-2019
Print Date: 22-Nov-2019
Report ID: 3033-2722-1807-6013
Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Cat: **MINOOS' BARTEMIUS CROUCH** *Reg:* **MCO07EXX1-55604**
DOB: **04/08/2019** *Sex:* **Male** *Breed:* **Maine Coon** *Microchip:* **939000007213023** *Color:* **Red classic tabby**

Sire: RAYDUSOLEIL STACKER PENTECOST *Reg:* MCO25EMX1-50357
Dam: MINOOS' SILKE MALONE *Reg:* MCO12XXX2-50792

PYRUVATE KINASE DEFICIENCY TEST RESULT

N/N

Result Codes:

N/N	no copies of PK deficiency, cat is normal
N/K	1 copy of PK deficiency, cat is normal but is a carrier
K/K	2 copies of PK deficiency, cat is or will be affected. Severity of symptoms cannot be predicted*

Erythrocyte Pyruvate Kinase Deficiency (PK deficiency) is an inherited, autosomal recessive, hemolytic anemia. Breedings between carriers will be expected to produce 25% affected kittens. Go to our website for a list of breeds at risk of PK deficiency due to a significant frequency of the mutation.

*If your cat is diagnosed as homozygous for PK deficiency, we recommend that you contact your veterinarian for information on disease progression and management.

For more information on PK Deficiency test results, please go to:
www.vgl.ucdavis.edu/services/pkdeficiency.php

IDENTITY MARKERS

LOCUS	TYPE	LOCUS	TYPE
FCA075	S	*FCA220*	L
FCA223	WX	*FCA678*	J
FCA698	S		

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MAINE COON HCM (HYPERTROPHIC CARDIOMYOPATHY) TEST REPORT

GREG STAPLES
1014 SNIDER'S BAY ROAD
GRAVENHURST ONTARIO P1P 1R2
CANADA

Case: **CAT119607**
Date Received: 21-Nov-2019
Print Date: 26-Nov-2019
Report ID: 1652-9948-4824-2035
Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Cat: **MINOOS' BARTEMIUS CROUCH** *Reg:* **MCO07EXX1-55604**
DOB: **04/08/2019** *Sex:* **Male** *Breed:* **Maine Coon** *Microchip:* **939000007213023** *Color:* **Red classic tabby**

Sire: RAYDUSOLEIL STACKER PENTECOST *Reg:* MCO25EMX1-50357
Dam: MINOOS' SILKE MALONE *Reg:* MCO12XXX2-50792

Maine Coon HCM Test Result

N/N

Result Codes:

N/N	Normal.
N/HCMmc	One copy of the A31P mutation is present. Cat is 1.8 times more likely to develop HCM than cats without the mutation.
HCMmc/HCMmc	Two copies of the A31P mutation are present. Cat is 18 times more likely to develop HCM than cats without the mutation.

This test only detects the A31P mutation associated with HCM in Maine Coon cats and outcrosses as described by Meurs et al. 2005. The A31P mutation is not the sole cause of HCM in Maine Coons. The other causes are not known at this time.

For more information on Maine Coon HCM test results, please go to:
www.vgl.ucdavis.edu/services/cat/MaineCoonHCM.php

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MAINE COON SPINAL MUSCULAR ATROPHY TEST REPORT

GREG STAPLES
1014 SNIDER'S BAY ROAD
GRAVENHURST ONTARIO P1P 1R2
CANADA

Case: **CAT119607**
Date Received: 21-Nov-2019
Print Date: 26-Nov-2019
Report ID: 7123-0525-0478-8051
Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Cat: **MINOOS' BARTEMIUS CROUCH** *Reg:* **MCO07EXX1-55604**
DOB: **04/08/2019** *Sex:* **Male** *Breed:* **Maine Coon** *Microchip:* **939000007213023** *Color:* **Red classic tabby**

Sire: RAYDUSOLEIL STACKER PENTECOST *Reg:* MCO25EMX1-50357
Dam: MINOOS' SILKE MALONE *Reg:* MCO12XXX2-50792

SMA Result

N/N

Result Codes:

N/N	No copies of SMA are present.
N/S	1 copy of SMA is present. Cat is normal but is a carrier. Breedings between carriers will be expected to produce 25% affected, 50% carriers and 25% normal kittens.
S/S	2 copies of SMA are present, cat is affected.

This test is specific for the mutation associated with SMA in Maine Coon cats and outcrosses.

For more information on SMA test results, please go to:
www.vgl.ucdavis.edu/services/cat/SMA.php

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BLOOD GROUP AND IDENTITY MARKER REPORT

GREG STAPLES
1014 SNIDER'S BAY ROAD
GRAVENHURST ONTARIO P1P 1R2
CANADA

Case: **CAT119607**
Date Received: 21-Nov-2019
Print Date: 26-Nov-2019
Report ID: 3139-9852-3225-2119
Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Cat: **MINOOS' BARTEMIUS CROUCH** *Reg:* **MCO07EXX1-55604**
DOB: **04/08/2019** *Sex:* **Male** *Breed:* **Maine Coon** *Microchip:* **939000007213023** *Color:* **Red classic tabby**

Sire: RAYDUSOLEIL STACKER PENTECOST *Reg:* MCO25EMX1-50357
Dam: MINOOS' SILKE MALONE *Reg:* MCO12XXX2-50792

BLOOD GROUP RESULT

N/N

Result Codes:

N/N	Cat is Type A or Type AB
N/b	Cat is a carrier of B factor; serotype could be Type A or Type AB
b/b	Cat is Type B
N/c	Cat is a carrier of AB factor; serotype could be Type A or Type AB
c/c	Cat is type AB
c/b	Cat is type AB; Carrier of B factor

For more detailed information on Cat Blood Group results, please go to:
www.vgl.ucdavis.edu/services/abblood.php

IDENTITY MARKERS

LOCUS	TYPE	LOCUS	TYPE
FCA075	S	*FCA220*	L
FCA223	WX	*FCA678*	J
FCA698	S		