JFARMS Grizzly Drogon

Lean
230 lbs.
(At 40 months)

AMERICAN KENNEL CLUB

NAME
JFARMS GRIZZLY DROGON

NUMBER
WS57641902

BREED
MASTIFF

SEX
MALE

COLOR
BRINDLE, BLACK MASK

DATE OF BIRTH
JUNE 10, 2017

SIRE
SIR SHIBBLIE-SHIBBLESWORTH MOSES
WS40126604 (10/17) OFA64G

DAM
CH COOPERS-JFARMS CENTERFOLD
WS40087305 (01/16) OFA29G OFEL29

BREEDER
PAIGE E JOHNSON & SHARON KAY JOHNSON

OWNER
PAIGE E JOHNSON & SHARON KAY JOHNSON

AMERICAN KENNEL CLUB®

If a date appears after the name and number of the sire and dam, it indicates the issue of the Stud Book Register in which the sire or dam is published.

This certificate issued with the right to correct or revoke by the American Kennel Club.

REGISTRATION CERTIFICATE

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AMERICAN KENNEL CLUB · FOUNDED 1884

Certified Pedigree

JFARMS GRIZZLY DROGON
WS57641902
MASTIFF MALE BRDL BLK MSK
Microchip: 956000009777474
Date Whelped: 06/10/2017
Breeder: PAIGE E JOHNSON/SHARON KAY JOHNSON

Sire — **SIR SHIBBLIE-SHIBBLESWORTH MOSES**
WS40126604 (10-17) OFA64G BRDL

- KING TITUS III — WS37666901 (06-12) BRDL
  - SPELLBOUND'S LORD BOAZ — WS27993802 (03-10) BRDL BLK MSK
    - BELLAGIO OF THE HILLS — WS09125904 (11-05) FN BLK MSK AKC DNA #V388211
    - LYNDESFARNE SHADOWHILLS JEWELLS — WS14966601 (04-08) BRDL BLK MSK
  - SHADOWHILLS MAKE ME SPARKLE — WS24594701 (11-08) BRDL BLK MSK
    - BAKERSELITE COWBOY UP Y SHADOWHILLS — WS15671105 (10-07) BRDL BLK MSK AKC DNA #V509964
    - HENNESSYS TREASURES OF LOVE — WS07009103 (02-06) FN BLK MSK
- PRINCESS PENELOPI PEACH — WS36363305 (06-12) APCT BLK MSK
  - SPELLBOUND'S SIR BRODI — WS25453105 (10-09) APCT BLK MSK
    - SIR GOLIATH — WS12010403 (01-07) FN BLK MSK
    - PRINCESS MAIAH — WS18982302 (06-08) APCT BLK MSK
  - PRINCESS CLEOPATRA II — WS13514202 (01-07) APCT BLK MSK
    - B'S THUNDER BEAR JR — WP95298308 (07-01) FN BLK MSK AKC DNA #V343947
    - GAWKEY CREEK'S TOP PEACH — WS07554405 (10-05) APCT BLK MSK

Dam — **CH COOPERS-JFARMS CENTERFOLD**
WS40087305 (01-16) OFA29G OFEL29 FN BLK MSK

- COOPERS IF YOU LOVE SOMETHING SET IT FREE — WS24230702 (06-12) OFA47G OFEL47 FN AKC DNA #V663446
  - LIONSIRE MR GREENJEANS — WS05506418 (09-05) FN BLK MSK AKC DNA #V413488
    - SMOKY JO BIG BLACK BEAR — WP64145009 (05-99) FN BLK MSK
    - WINDSORSPRING MEAGANIONSIRE — WP99373902 (06-03) FN BLK MSK
  - LIONSIRE COOPER'S VANILLA SKY — WS02550001 (12-06) FN BLK MSK
    - LIONSIRE MR BUDD OF TWINOAKS — WP95089101 (03-03) BRDL
    - TWIN OAK QUEEN GINGER — WR03085704 (03-03) APCT BLK MSK
- JFARMS LADY BIG STUFF — WS32110101 (06-12) OFA24G OFEL24 FN BLK MSK
  - JFARMS MR. BIG STUFF — WR07140401 (01-09) OFA25G OFEL25 FN BLK MSK AKC DNA #V635007
    - CELESTIAL DOMINIC — WP95403404 (11-02) BRDL BLK MSK AKC DNA #V119290
    - J FARMS PRINCESS SUNDANCE — WP86574504 (11-02) OFA33G OFEL33 FN BLK MSK
  - CASTLE MOUNT-JFARMS STORM — WS18499001 (01-09) OFA24G OFEL24 BRDL BLK MSK
    - CASTLE MOUNT'S AUTUMN'S REGALO — WS18049901 (11-06) OFA24G OFEL24 BRDL BLK MSK AKC DNA #V466135
    - CASTLE MOUNT'STRILLIUM SYDNEY BRISTOW — WS06884906 (11-06) OFA36G OFEL36 BRDL BLK MSK

American Kennel Club®

Executive Secretary

The Seal of The American Kennel Club affixed hereto certifies that this pedigree was compiled from official Stud Book records on February 15, 2018.

DNA Test Report

Owner Info

First Name
Paige

Last Name
Johnson

Pet Info

Registered Name
JFARMS GRIZZLY DROGON

Date of Birth
6/10/2017

Nickname (Call Name)
JFARMS GRIZZLY DROGON

Sample ID
DMVXTNP

Sex
Male

Registration
WS57641902

Country of Origin
US

Microchip ID
956000009777474

Owner Reported Breed
Mastiff

Tattoo ID
N/A

Genetic Diversity (Heterozygosity)

JFARMS GRIZZLY DROGON's Percentage of Heterozygosity

35%

JFARMS GRIZZLY DROGON's genome analysis shows higher than average genetic heterozygosity when compared with other Mastiffs.

Typical Range for Mastiffs

27 - 34%

JFARMS GRIZZLY DROGON
Registration: WS57641902
Breed: Mastiff

WISDOM PANEL™

DNA Test Report

Sample ID: DMVXTNP
Test Date: 4/20/2021
Optimal Selection - Canine

Note: **Does not have Canine Multifocal Retinopathy 1 (CMR)** but carries one (1) recessive CMR Gene – Therefore, should only be bred to a Dam with two (2) dominate clear CMR Genes so puppies will not have CMR.

Health Conditions Known in This Breed

Genetic Condition	Gene	Risk Variant	Copies	Result
Canine Multifocal Retinopathy 1	BEST1	C>T	1	Notable
Dominant Progressive Retinal Atrophy	RHO	C>G	0	Clear

Other Conditions Tested

Genetic Condition	Gene	Risk Variant	Copies	Result
2,8-dihydroxyadenine (DHA) Urolithiasis	APRT	G>A	0	Clear
Acral Mutilation Syndrome	GDNF	C>T	0	Clear
Acute Respiratory Distress Syndrome	ANLN	C>T	0	Clear
Alaskan Husky Encephalopathy	SLC19A3	G>A	0	Clear
Alexander Disease	GFAP	G>A	0	Clear
Amelogenesis Imperfecta	ENAM	Deletion	0	Clear
Bandera's Neonatal Ataxia	GRM1	Insertion	0	Clear
Benign Familial Juvenile Epilepsy	LGI2	A>T	0	Clear
Canine Leukocyte Adhesion Deficiency (CLAD), type III	FERMT3	Insertion	0	Clear
Canine Multifocal Retinopathy 2	BEST1	G>A	0	Clear
Canine Multifocal Retinopathy 3	BEST1	Deletion	0	Clear
Canine Scott Syndrome	ANO6	G>A	0	Clear
Centronuclear Myopathy (Discovered in the Great Dane)	BIN1	A>G	0	Clear
Centronuclear Myopathy (Discovered in the Labrador Retriever)	PTPLA	Insertion	0	Clear
Cerebellar Ataxia	RAB24	A>C	0	Clear
Cerebellar Cortical Degeneration	SNX14	C>T	0	Clear
Cerebellar Hypoplasia	VLDLR	Deletion	0	Clear
Cerebral Dysfunction	SLC6A3	G>A	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Chondrodysplasia	ITGA10	C>T	0	Clear
Cleft Lip & Palate with Syndactyly	ADAMTS20	Deletion	0	Clear
Cleft Palate	DLX6	C>A	0	Clear
Collie Eye Anomaly (CEA)	NHEJ1	Deletion	0	Clear
Complement 3 Deficiency	C3	Deletion	0	Clear
Cone Degeneration (Discovered in the Alaskan Malamute)	CNGB3	Deletion	0	Clear
Cone Degeneration (Discovered in the German Shepherd Dog)	CNGA3	C>T	0	Clear
Cone Degeneration (Discovered in the German Shorthaired Pointer)	CNGB3	G>A	0	Clear
Cone-Rod Dystrophy	NPHP4	Deletion	0	Clear
Cone-Rod Dystrophy 1	PDE6B	Deletion	0	Clear
Cone-Rod Dystrophy 2	IQCB1	Insertion	0	Clear
Congenital Dyshormonogenic Hypothyroidism with Goiter (Discovered in the Shih Tzu)	SLC5A5	G>A	0	Clear
Congenital Hypothyroidism (Discovered in the Tenterfield Terrier)	TPO	C>T	0	Clear
Congenital Hypothyroidism (Discovered in the Toy Fox and Rat Terrier)	TPO	C>T	0	Clear
Congenital Myasthenic Syndrome (Discovered in the Golden Retriever)	COLQ	G>A	0	Clear
Congenital Myasthenic Syndrome (Discovered in the Jack Russell Terrier)	CHRNE	Insertion	0	Clear
Congenital Myasthenic Syndrome (Discovered in the Labrador Retriever)	COLQ	T>C	0	Clear
Congenital Myasthenic Syndrome (Discovered in the Old Danish Pointer)	CHAT	G>A	0	Clear
Congenital Stationary Night Blindness (CSNB)	RPE65	A>T	0	Clear
Craniomandibular Osteopathy	SLC37A2	C>T	0	Clear
Cystic Renal Dysplasia and Hepatic Fibrosis	INPP5E	G>A	0	Clear
Cystinuria Type I-A	SLC3A1	C>T	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Cystinuria Type II-A	SLC3A1	Deletion	0	Clear
Deafness and Vestibular Dysfunction (Discovered in Doberman Pinscher)	PTPRQ	Insertion	0	Clear
Degenerative Myelopathy	SOD1	G>A	0	Clear
Demyelinating Neuropathy	SBF2	G>T	0	Clear
Dental Hypomineralization	FAM20C	C>T	0	Clear
Dilated Cardiomyopathy (Discovered in the Schnauzer)	Pending	Deletion	0	Clear
Dystrophic Epidermolysis Bullosa (Discovered in the Central Asian Ovcharka)	COL7A1	C>T	0	Clear
Dystrophic Epidermolysis Bullosa (Discovered in the Golden Retriever)	COL7A1	C>T	0	Clear
Early Adult Onset Deafness For Border Collies only (Linkage test)	Pending	Insertion	0	Clear
Early Retinal Degeneration (Discovered in the Norwegian Elkhound)	STK38L	A>C	0	Clear
Early-onset PRA (Discovered in the Portuguese Water Dog)	CCDC66	Insertion	0	Clear
Early-Onset Progressive Polyneuropathy (Discovered in the Alaskan Malamute)	NDRG1	G>T	0	Clear
Early-Onset Progressive Polyneuropathy (Discovered in the Greyhound)	NDRG1	Deletion	0	Clear
Enamel Hypoplasia (Discovered in the Parson Russell Terrier)	ENAM	C>T	0	Clear
Epidermolytic Hyperkeratosis	KRT10	G>T	0	Clear
Episodic Falling Syndrome	BCAN	Insertion	0	Clear
Exercise-Induced Collapse	DNM1	G>T	0	Clear
Factor VII Deficiency	F7	G>A	0	Clear
Factor XI Deficiency	FXI	Insertion	0	Clear
Fanconi Syndrome	FAN1	Deletion	0	Clear
Fetal Onset Neuroaxonal Dystrophy	MFN2	G>C	0	Clear
Focal Non-Epidermolytic Palmoplantar Keratoderma	KRT16	G>C	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Generalized Progressive Retinal Atrophy (Discovered in the Schapendoes)	CCDC66	Insertion	0	Clear
Glanzmann Thrombasthenia Type I	ITGA2B	C>T	0	Clear
Glanzmann Thrombasthenia Type I (Discovered in Great Pyrenees)	ITGA2B	C>G	0	Clear
Globoid Cell Leukodystrophy (Discovered in Terriers)	GALC	A>C	0	Clear
Globoid Cell Leukodystrophy (Discovered in the Irish Setter)	GALC	A>T	0	Clear
Glycogen Storage Disease Type Ia	G6PC	G>C	0	Clear
Glycogen Storage Disease Type IIIa, (GSD IIIa)	AGL	Deletion	0	Clear
GM1 Gangliosidosis (Discovered in the Portuguese Water Dog)	GLB1	G>A	0	Clear
GM1 Gangliosidosis (Discovered in the Shiba)	GLB1	Deletion	0	Clear
GM2 Gangliosidosis (Discovered in the Japanese Chin)	HEXA	G>A	0	Clear
GM2 Gangliosidosis (Discovered in the Toy Poodle)	HEXB	Deletion	0	Clear
Goniodysgenesis and Glaucoma (Discovered in the Border Collie)	OLFML3	G>A	0	Clear
Hemophilia A (Discovered in Old English Sheepdog)	FVIII	C>T	0	Clear
Hemophilia A (Discovered in the Boxer)	FVIII	C>G	0	Clear
Hemophilia A (Discovered in the German Shepherd Dog - Variant 1)	FVIII	G>A	0	Clear
Hemophilia A (Discovered in the German Shepherd Dog - Variant 2)	FVIII	G>A	0	Clear
Hemophilia A (Discovered in the Havanese)	FVIII	Insertion	0	Clear
Hemophilia B	FIX	G>A	0	Clear
Hemophilia B (Discovered in the Airedale Terrier)	FIX	A>T	0	Clear
Hemophilia B (Discovered in the Lhasa Apso)	FIX	Deletion	0	Clear
Hereditary Ataxia (Discovered in the Norwegian Buhund)	KCNIP4	T>C	0	Clear
Hereditary Elliptocytosis	SPTB	C>T	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Hereditary Footpad Hyperkeratosis	FAM83G	G>C	0	Clear
Hereditary Nasal Parakeratosis (Discovered in the Greyhound)	SUV39H2	Deletion	0	Clear
Hereditary Nasal Parakeratosis (Discovered in the Labrador Retriever)	SUV39H2	A>C	0	Clear
Hereditary Vitamin D-Resistant Rickets Type II	VDR	Deletion	0	Clear
Hyperekplexia or Startle Disease	SLC6A5	G>T	0	Clear
Hyperuricosuria	SLC2A9	G>T	0	Clear
Hypocatalasia	CAT	G>A	0	Clear
Hypomyelination	FNIP2	Deletion	0	Clear
Hypophosphatasia	Pending	T>G	0	Clear
Ichthyosis (Discovered in the American Bulldog)	NIPAL4	Deletion	0	Clear
Ichthyosis (Discovered in the Great Dane)	SLC27A4	G>A	0	Clear
Intestinal Cobalamin Malabsorption (Discovered in the Beagle)	CUBN	Deletion	0	Clear
Intestinal Cobalamin Malabsorption (Discovered in the Border Collie)	CUBN	Deletion	0	Clear
Intestinal Cobalamin Malabsorption (Discovered in the Komondor)	CUBN	G>A	0	Clear
Juvenile Encephalopathy (Discovered in the Parson Russell Terrier)	Pending	Deletion	0	Clear
Juvenile Laryngeal Paralysis and Polyneuropathy	RAB3GAP1	Deletion	0	Clear
Juvenile Myoclonic Epilepsy	DIRAS1	Deletion	0	Clear
L-2-Hydroxyglutaric Aciduria	L2HGDH	T>C	0	Clear
L-2-Hydroxyglutaric Aciduria (Discovered in the Westie)	Pending	Insertion	0	Clear
Lagotto Storage Disease	ATG4D	G>A	0	Clear
Lamellar Ichthyosis	TGM1	Insertion	0	Clear
Lethal Acrodermatitis (Discovered in the Bull Terrier)	MKLN1	A>C	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Ligneous Membranitis	PLG	T>A	0	Clear
Lung Developmental Disease (Discovered in the Airedale Terrier)	LAMP3	C>T	0	Clear
Macrothrombocytopenia	TUBB1	G>A	0	Clear
May-Hegglin Anomaly	MYH9	G>A	0	Clear
MDR1 Medication Sensitivity	MDR1/ABCB1	Deletion	0	Clear
Microphthalmia (Discovered in the Soft-Coated Wheaten Terrier)	RBP4	Deletion	0	Clear
Mucopolysaccharidosis Type IIIA (Discovered in the Dachshund)	SGSH	C>A	0	Clear
Mucopolysaccharidosis Type IIIA (Discovered in the New Zealand Huntaway)	SGSH	Insertion	0	Clear
Mucopolysaccharidosis Type VII (Discovered in the Brazilian Terrier)	GUSB	C>T	0	Clear
Mucopolysaccharidosis Type VII (Discovered in the German Shepherd Dog)	GUSB	G>A	0	Clear
Muscular Dystrophy (Discovered in the Cavalier King Charles Spaniel)	Dystrophin	G>T	0	Clear
Muscular Dystrophy (Discovered in the Golden Retriever)	Dystrophin	A>G	0	Clear
Muscular Dystrophy (Discovered in the Landseer)	COL6A1	G>T	0	Clear
Muscular Dystrophy (Discovered in the Norfolk Terrier)	Dystrophin	Deletion	0	Clear
Muscular Hypertrophy (Double Muscling)	MSTN	T>A	0	Clear
Musladin-Lueke Syndrome	ADAMTSL2	C>T	0	Clear
Myeloperoxidase Deficiency	MOP	C>T	0	Clear
Myotonia Congenita	CLCN1	Insertion	0	Clear
Myotonia Congenita (Discovered in the Labrador Retriever)	CLCN1	T>A	0	Clear
Myotonia Congenita (Discovered in the Miniature Schnauzer)	CLCN1	C>T	0	Clear
Myotubular Myopathy	MTM1	A>C	0	Clear
Narcolepsy (Discovered in the Dachshund)	HCRTR2	G>A	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Narcolepsy (Discovered in the Labrador Retriever)	HCRTR2	G>A	0	Clear
Nemaline Myopathy	NEB	C>A	0	Clear
Neonatal Cerebellar Cortical Degeneration	SPTBN2	Deletion	0	Clear
Neonatal Encephalopathy with Seizures	ATF2	T>G	0	Clear
Neuroaxonal Dystrophy	TECPR2	C>T	0	Clear
Neuroaxonal Dystrophy (Discovered in the Papillon)	PLA2G6	G>A	0	Clear
Neuroaxonal Dystrophy (Discovered in the Rottweiler)	VPS11	A>G	0	Clear
Neuronal Ceroid Lipofuscinosis 1	PPT1	Insertion	0	Clear
Neuronal Ceroid Lipofuscinosis 12 (Discovered in the Australian Cattle Dog)	ATP13A2	C>T	0	Clear
Neuronal Ceroid Lipofuscinosis 7	MFSD8	Deletion	0	Clear
Neuronal Ceroid Lipofuscinosis 8 (Discovered in the Alpine Dachsbracke)	CLN8	Deletion	0	Clear
Neuronal Ceroid Lipofuscinosis 8 (Discovered in the Australian Shepherd)	CLN8	G>A	0	Clear
Neuronal Ceroid Lipofuscinosis 8 (Discovered in the English Setter)	CLN8	T>C	0	Clear
Neuronal Ceroid Lipofuscinosis 8 (Discovered in the Saluki)	CLN8	Insertion	0	Clear
Obesity risk (POMC)	POMC	Deletion	0	Clear
Osteochondrodysplasia	SLC13A1	Deletion	0	Clear
Osteochondromatosis (Discovered in the American Staffordshire Terrier)	EXT2	C>A	0	Clear
Osteogenesis Imperfecta (Discovered in the Beagle)	COL1A2	C>T	0	Clear
Osteogenesis Imperfecta (Discovered in the Dachshund)	SERPINH1	T>C	0	Clear
P2RY12-associated Bleeding Disorder	P2RY12	Deletion	0	Clear
Paroxysmal Dyskinesia	PIGN	C>T	0	Clear
Persistent Müllerian Duct Syndrome	AMHR2	C>T	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Phosphofructokinase Deficiency	PFKM	G>A	0	Clear
Polycystic Kidney Disease	PKD1	G>A	0	Clear
Prekallikrein Deficiency	KLKB1	T>A	0	Clear
Primary Ciliary Dyskinesia	CCDC39	C>T	0	Clear
Primary Ciliary Dyskinesia (Discovered in the Alaskan Malamute)	NME5	Deletion	0	Clear
Primary Lens Luxation	ADAMTS17	G>A	0	Clear
Primary Open Angle Glaucoma (Discovered in Basset Fauve de Bretagne)	ADAMTS17	G>A	0	Clear
Primary Open Angle Glaucoma (Discovered in Petit Basset Griffon Vendeen)	ADAMTS17	Insertion	0	Clear
Primary Open Angle Glaucoma and Lens Luxation (Discovered in Chinese Shar-Pei)	ADAMTS17	Deletion	0	Clear
Progressive Early-Onset Cerebellar Ataxia	SEL1L	T>C	0	Clear
Progressive Retinal Atrophy (Discovered in the Basenji)	SAG	T>C	0	Clear
Progressive Retinal Atrophy (Discovered in the Golden Retriever - GR-PRA1 variant)	SLC4A3	Insertion	0	Clear
Progressive Retinal Atrophy (Discovered in the Lhasa Apso)	Pending	Insertion	0	Clear
Progressive Retinal Atrophy (Discovered in the Papillon and Phalène)	CNGB1	Deletion	0	Clear
Progressive Retinal Atrophy (Discovered in the Shetland Sheepdog - BBS2 variant)	Pending	G>C	0	Clear
Progressive Retinal Atrophy (Discovered in the Swedish Vallhund)	MERTK	Insertion	0	Clear
Progressive Retinal Atrophy 1 (Discovered in the Italian Greyhound)	Pending	G>A	0	Clear
Progressive Retinal Atrophy Type III	FAM161A	Insertion	0	Clear
Progressive Rod Cone Degeneration (prcd-PRA)	PRCD	G>A	0	Clear
Protein Losing Nephropathy	NPHS1	G>A	0	Clear
Pyruvate Dehydrogenase Phosphatase 1 Deficiency	PDP1	C>T	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Pyruvate Kinase Deficiency (Discovered in the Basenji)	PKLR	Deletion	0	Clear
Pyruvate Kinase Deficiency (Discovered in the Beagle)	PKLR	G>A	0	Clear
Pyruvate Kinase Deficiency (Discovered in the Pug)	PKLR	T>C	0	Clear
Pyruvate Kinase Deficiency (Discovered in the West Highland White Terrier)	PKLR	Insertion	0	Clear
QT Syndrome	KCNQ1	C>A	0	Clear
Renal Cystadenocarcinoma and Nodular Dermatofibrosis	FLCN	A>G	0	Clear
Rod-Cone Dysplasia 1	PDE6B	G>A	0	Clear
Rod-Cone Dysplasia 1a	PDE6B	Insertion	0	Clear
Rod-Cone Dysplasia 3	PDE6A	Deletion	0	Clear
Sensory Ataxic Neuropathy	tRNATyr	Deletion	0	Clear
Sensory Neuropathy	FAM134B	Insertion	0	Clear
Severe Combined Immunodeficiency	PRKDC	G>T	0	Clear
Severe Combined Immunodeficiency (Discovered in Frisian Water Dogs)	RAG1	G>T	0	Clear
Shaking Puppy Syndrome (Discovered in the Border Terrier)	Pending	G>A	0	Clear
Skeletal Dysplasia 2	COL11A2	G>C	0	Clear
Spinocerebellar Ataxia (Late-Onset Ataxia)	CAPN1	G>A	0	Clear
Spinocerebellar Ataxia with Myokymia and/or Seizures	KCNJ10	C>G	0	Clear
Spondylocostal Dysostosis	HES7	Deletion	0	Clear
Spongy Degeneration with Cerebellar Ataxia	SDCA1	T>C	0	Clear
Spongy Degeneration with Cerebellar Ataxia (Discovered in Belgian Malinois)	ATP1B2	Insertion	0	Clear
Stargardt Disease (Discovered in the Labrador Retriever)	ABCA4	Insertion	0	Clear
Trapped Neutrophil Syndrome	VPS13B	Deletion	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Van den Ende-Gupta Syndrome	SCARF2	Deletion	0	Clear
von Willebrand's Disease, type 1	VWF	G>A	0	Clear
von Willebrand's Disease, type 2	VWF	T>G	0	Clear
von Willebrand's Disease, type 3 (Discovered in the Kooiker Hound)	VWF	G>A	0	Clear
von Willebrand's Disease, type 3 (Discovered in the Scottish Terrier)	VWF	Deletion	0	Clear
von Willebrand's Disease, type 3 (Discovered in the Shetland Sheepdog)	VWF	Deletion	0	Clear
X-Linked Ectodermal Dysplasia	EDA	G>A	0	Clear
X-Linked Hereditary Nephropathy (Discovered in the Navasota Dog)	COL4A5	Deletion	0	Clear
X-Linked Hereditary Nephropathy (Discovered in the Samoyed)	COL4A5	G>T	0	Clear
X-Linked Myotubular Myopathy	MTM1	C>A	0	Clear
X-Linked Progressive Retinal Atrophy 1	RPGR	Deletion	0	Clear
X-Linked Progressive Retinal Atrophy 2	RPGR	Deletion	0	Clear
X-Linked Severe Combined Immunodeficiency (Discovered in the Basset Hound)	IL2RG	Deletion	0	Clear
X-Linked Severe Combined Immunodeficiency (Discovered in the Cardigan Welsh Corgi)	IL2RG	Insertion	0	Clear
X-Linked Tremors	PLP1	A>C	0	Clear
Xanthinuria (Discovered in a mixed breed dog)	Pending	G>A	0	Clear
Xanthinuria (Discovered in the Cavalier King Charles Spaniel)	Pending	Deletion	0	Clear
Xanthinuria (Discovered in the Toy Manchester Terrier)	Pending	G>T	0	Clear
Progressive Retinal Atrophy (Discovered in the Shetland Sheepdog - CNGA1 variant)	CNGA1	Deletion	—	Inconclusive

Coat Color

Genetic Trait	Gene	Variant	Copies	Result
Fawn	ASIP	a^{y}	2	Fawn possible
Recessive Black	ASIP	a	0	No effect
Tan Points	ASIP	a^{t}	0	No effect
Dominant Black	CBD103	K^{B}	1	Black or brindle possible
Mask	MC1R	E^{m}	2	Dark Muzzle possible
Recessive Red (Variant 1)	MC1R	e^{1}	0	No effect
Recessive Red (Variant 2)	MC1R	e^{2}	0	No effect
Recessive Red (Variant 3)	MC1R	e^{3}	0	No effect
Widow's Peak (Discovered in Ancient dogs)	MC1R	e^{A}	0	No effect
Widow's Peak (Discovered in the Afghan Hound and Saluki)	MC1R	E^{G}	0	No effect
Red Intensity	MFSD12	i	2	White to yellow coat shades likely
Dilution (Variant 1) Linkage test	MLPH	d^{1}	0	No effect
Dilution (Variant 2)	MLPH	d^{2}	0	No effect
Dilution (Variant 3)	MLPH	d^{3}	0	No effect
Chocolate (Variant 1)	TYRP1	b^{c}	0	No effect
Chocolate (Variant 2)	TYRP1	b^{s}	0	No effect
Chocolate (Variant 3)	TYRP1	b^{d}	0	No effect
Chocolate (Variant 4)	TYRP1	b^{sed}	0	No effect

Coat Patterns

Genetic Trait	Gene	Variant	Copies	Result
Piebald	MITF	s^{p}	0	No effect

Coat Patterns (continued)

Genetic Trait	Gene	Variant	Copies	Result
Merle	PMEL	M	0	No effect
Harlequin	PSMB7	H	0	No effect
Saddle Tan	RALY	-	1	Saddle possible

Coat Length and Curl

Genetic Trait	Gene	Variant	Copies	Result
Long Hair (Variant 1)	FGF5	lh^{1}	0	No effect
Long Hair (Variant 2)	FGF5	lh^{2}	0	No effect
Long Hair (Variant 3)	FGF5	lh^{3}	0	No effect
Long Hair (Variant 4)	FGF5	lh^{4}	0	No effect
Long Hair (Variant 5)	FGF5	lh^{5}	0	No effect
Curly Coat	KRT71	C	0	No effect

Hairlessness

Genetic Trait	Gene	Variant	Copies	Result
Hairlessness (Discovered in the Chinese Crested Dog)	FOXI3	Hr^{cc}	0	No effect
Hairlessness (Discovered in the American Hairless Terrier)	SGK3	hr^{aht}	0	No effect
Hairlessness (Discovered in the Scottish Deerhound)	SKG3	hr^{sd}	0	No effect

More Coat Traits

Genetic Trait	Gene	Variant	Copies	Result
Hair Ridge	FGF3, FGF4, FGF19, ORAOV1	R	0	No effect

More Coat Traits (continued)

Genetic Trait	Gene	Variant	Copies	Result
Reduced Shedding	MC5R	sd	2	Low shedder
Furnishings	RSPO2	F	0	No effect
Albino	SLC45A2	c^{al}	0	No effect

Head Shape

Genetic Trait	Gene	Variant	Copies	Result
Short Snout (Variant 2)	BMP3	-	0	No effect
Short Snout (Variant 1)	SMOC2	-	0	No effect

Hind Dewclaws

Genetic Trait	Gene	Variant	Copies	Result
Hind Dewclaws (Discovered in Asian breeds)	LMBR1	DC-1	0	No effect
Hind Dewclaws (Discovered in Western breeds)	LMBR1	DC-2	0	No effect

Body Features

Genetic Trait	Gene	Variant	Copies	Result
Back Muscle and Bulk	ACSL4	-	2	Bulky appearance likely
Blue Eyes	ALX4	-	0	No effect
High Altitude Adaptation	EPAS1	-	0	No effect
Short Legs	FGF4	-	0	Medium to long legs
Floppy Ears	MSRB3	-	2	Floppy ears more likely
Short Tail	T-box	T	0	Full tail length likely

VetGen DNA Analysis Report

3278 Plaza Drive Suite One Ann Arbor MI 48108 USA
vetgen@vetgen.com 800-483-8436 US & Canada

Vetgen ID	39013				
Animal Name	Jfarms Grizzly Dragon				
Registration	WS57641902 956 000 007 774 74				
Breed	Mastiff	**Gender**	M	**Date of Birth**	06/10/2017
Color-Coat	Not Provided	**Nose**	Not Provided		

Sharon K & Dr Paige Johnson
PO Box 125
Leonardtown, MD 20650
USA

DISEASE TEST RESULTS

Report Number	Report Date	Test	Results
142030	6/7/2018	Macrothrombocytopenia	Not carrying the mutation
142029	6/7/2018	PRA-AD	Clear
142027	6/7/2018	DM-SOD1-A	Clear-not carrying the mutation
142028	06/01/2018	HU - Hyperuricosuria	Clear
140440	06/01/2018	Cystinuria - Type 3	No copies of the marker associated with cystinuria

This DNA testing is for the mutation typically found to cause the disease in this breed.

Date 06/07/2018

Findings reviewed and approved by: George J. Brewer

Dr. George J. Brewer

VetGen DNA Analysis Report

3278 Plaza Drive Suite One Ann Arbor MI 48108 USA
vetgen@vetgen.com 800-483-8436 US & Canada

Vetgen ID	39013				
Animal Name	Jfarms Grizzly Dragon				
Registration	WS57641902 956 000 007 774 74				
Breed	Mastiff	**Gender**	M	**Date of Birth**	06/10/2017
Color-Coat	Not Provided	**Nose**	Not Provided		

Sharon K & Dr Paige Johnson
PO Box 125
Leonardtown, MD 20650
USA

DISEASE TEST RESULTS

Report Number	Report Date	Test	Results
142028	6/1/2018	HU - Hyperuricosuria	Clear
140440	6/1/2018	Cystinuria - Type 3	No copies of the marker associated with cystinuria

This DNA testing is for the mutation typically found to cause the disease in this breed.

Date 06/01/2018

Findings reviewed and approved by: George J. Brewer

Dr. George J. Brewer

VetGen DNA Analysis Report

3278 Plaza Drive Suite One Ann Arbor MI 48108 USA
vetgen@vetgen.com 800-483-8436 US & Canada

Vetgen ID	39013				
Animal Name	Jfarms Grizzly Dragon				
Registration	WS57641902 956 000 007 774 74				
Breed	Mastiff	**Gender**	M	**Date of Birth**	06/10/2017
Color-Coat	Not Provided	**Nose**	Not Provided		

Sharon K & Dr Paige Johnson
PO Box 125
Leonardtown, MD 20650
USA

Note: **Does not have Canine Multifocal Retinopathy 1 (CMR)** but carries one (1) recessive CMR Gene – Therefore, should only be bred to a Dam with two (2) dominate clear CMR Genes so puppies will not have CMR.

DISEASE TEST RESULTS

Report Number	Report Date	Test	Results
142026	6/21/2018	CMR1 - Canine Multifocal Retinopa	Carrier
142028	06/01/2018	HU - Hyperuricosuria	Clear
140440	06/01/2018	Cystinuria - Type 3	No copies of the marker associated with cystinuria
142030	06/07/2018	Macrothrombocytopenia	Not carrying the mutation
142029	06/07/2018	PRA-AD	Clear
142027	06/07/2018	DM-SOD1-A	Clear-not carrying the mutation

This DNA testing is for the mutation typically found to cause the disease in this breed.

Date 06/21/2018

Findings reviewed and approved by: George J. Brewer

Dr. George J. Brewer

AMERICAN KENNEL CLUB®

June 25, 2018

PAIGE JOHNSON
P. O. BOX 125
LEONARDTOWN MD 20650

Letter of DNA Analysis

Breed: **Mastiff**
Sex: **Male**
Date of Birth: **10-JUN-17**
ID #: **95600000777474**
Date of Analysis: **22-JUN-18**
AKC #: **WS57641902**
AKC Name: **Jfarms Grizzly Drogon**
Owner(s): **Paige Johnson,Sharon Johnson**

DNA Profile #: **V854749**

The following genotype uniquely represents the Neogen Corporation genetic identity of the dog named herein:

Neogen #: **854749**

PEZ 1	PEZ 3	PEZ 5	PEZ 6	PEZ 8	PEZ 12	PEZ 20	UCB 2010	UCB 2054	UCB 2079	PEZ 16	PEZ 17	PEZ 21	GEN
D E	I I	A C	F F	F F	F J	C C	B B	B B	C C	E H	D D	B D	X Y

Mark Dunn, AVP, Registration Development
American Kennel Club

Stewart Bauck, General Manager GeneSeek
Neogen Corporation

DNA Certificate Order Form

DR1AA

AKC Name: **Jfarms Grizzly Drogon**
AKC #: **WS57641902** DNA Profile #: **V854749**
Owner(s): **Paige Johnson,Sharon Johnson**

Number of DNA certificates _____ @ $10 each = $_____ total amount included

Mail order form to

AKC DNA Operations
PO Box 900065
Raleigh NC 27675-9065

Check or money order ☐ MasterCard ☐ Visa ☐ AmEx ☐

Account Number:_____ Exp. Date:_____

Name on Card:_____

ODNA08

Orthopedic Foundation for Animals
Preliminary (Consultation) Report

A Not-For-Profit Organization

JFARMS GRIZZLY DROGON
registered name

MASTIFF
breed

95600000777474
tattoo/microchip/DNA profile

1977616
application number

film/case no(s)

WS57641902
registration number

M
sex

6/10/2017
date of birth

12
age at evaluation in months

6/27/2018
date of report

Owner
PAIGE E. JOHNSON
SHARON KAY JOHNSON
PO BOX 125
LEONARDTOWN, MD 20650

Veterinarian
BANFIELD THE PET HOSPTIAL
2601 HOUSELY RD
ANNAPOLIS, MD 21401

RADIOGRAPHIC EVALUATION OF PELVIC PHENOTYPE WITH RESPECT TO HIP DYSPLASIA

The study must be repeated when the animal is 24 months of age or older to qualify for an OFA number.

_____ **EXCELLENT HIP JOINT CONFORMATION*** superior hip joint conformation as compared with other individuals of the same breed and age

_√_ **GOOD HIP JOINT CONFORMATION*** well formed hip joint conformation as compared with other individuals of the same breed and age

_____ **FAIR HIP JOINT CONFORMATION*** minor irregularities of the hip joint conformation as compared with other individuals of the same breed and age

_____ **BORDERLINE HIP JOINT CONFORMATION** marginal hip joint conformation of indeterminate status with respect to hip dysplasia at this time – **Repeat study in six months**

_____ **MILD HIP DYSPLASIA** radiographic evidence of minor dysplastic changes of the hip joints

_____ **MODERATE HIP DYSPLASIA** well defined radiographic evidence of dysplastic changes of the hip joints

_____ **SEVERE HIP DYSPLASIA** radiographic evidence of marked dysplastic changes of the hip joints

RADIOGRAPHIC FINDINGS

HIP JOINTS - STANDARD VD VIEW

_____subluxation
_____remodeling of femoral head/neck
_____osteoarthritis/degenerative joint disease
_____shallow acetabula
_____acetabular rim/edge change
_____unilateral pathology _____left _____right
_____transitional vertebra
_____spondylosis
_____panosteitis
_____other

Consultation by: Greg Keller DVM
G.G. KELLER, DVM, MS, DACVR
CHIEF OF VETERINARY SERVICES

ELBOW JOINTS – FLEXED LATERAL VIEW

_____negative for elbow dysplasia _____L _____R

ELBOW DYSPLASIA

Grade I	L_____	R_____
Grade II	L_____	R_____
Grade III	L_____	R_____

RADIOGRAPHIC FINDINGS

degenerative joint disease (DJD)	L_____	R_____
ununited anconeal process (UAP)	L_____	R_____
fragmented coronoid process (FCP)	L_____	R_____
osteochondrosis	L_____	R_____

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

JFARMS GRIZZLY DROGON
registered name

MASTIFF
breed

NYPS01152061
film/test/lab #

956000009777474
tattoo/microchip/DNA profile

1977616
application number

6/26/2018
date of report

WS57641902
registration no.

M
sex

6/10/2017
date of birth

12
age at evaluation in months

A Not-For-Profit Organization

MF-TH1797/12M-VPI
O.F.A. NUMBER

This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.

RESULTS:
Based on the laboratory results submitted, no evidence of thyroid disease was recognized.

NORMAL

owner
PAIGE E. JOHNSON
SHARON KAY JOHNSON
PO BOX 125
LEONARDTOWN, MD 20650

G.G.KELLER, D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

www.ofa.org

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

JFARMS GRIZZLY DROGON
registered name

MASTIFF
breed

95600000777474
tattoo/microchip/DNA profile

1977616
application number

6/26/2018
date of report

WS57641902
registration no.

M
sex

6/10/2017
date of birth

12
age at evaluation in months

A Not-For-Profit Organization

MF-PA3103/12M/P-VPI
O.F.A. NUMBER

This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.

RESULTS:
The results of the examination submitted to OFA indicate that no evidence of patellar luxation was recognized.

NORMAL - PRACTITIONER

owner
PAIGE E. JOHNSON
SHARON KAY JOHNSON
PO BOX 125
LEONARDTOWN, MD 20650

G.G.KELLER, D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

www.offa.org

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

JFARMS GRIZZLY DROGON
registered name

MASTIFF
breed

956000009777474 DNA:V854749
tattoo/microchip/DNA profile

1977616
application number

10/14/2019
date of report

WS57641902
registration no.

M
sex

6/10/2017
date of birth

27
age at evaluation in months

MF-9756F27M-VPI
O.F.A. NUMBER

This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.

A Not-For-Profit Organization

RESULTS:
Based upon the radiograph submitted, the consensus was that no evidence of hip dysplasia was recognized. The hip joint conformation was evaluated as:

FAIR

owner

DR PAIGE E. JOHNSON
SHARON KAY JOHNSON
PO BOX 125
LEONARDTOWN, MD 20650

G.G.KELLER. D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

www.ofa.org

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

JFARMS GRIZZLY DROGON
registered name

MASTIFF
breed

C047579
film/test/lab #

956000009777474 DNA:V854749
tattoo/microchip/DNA profile

1977616
application number

7/31/2018
date of report

WS57641902
registration no.

M
sex

6/10/2017
date of birth

13
age at evaluation in months

MF-ACA99/13M-VPI
O.F.A. NUMBER

This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.

A Not-For-Profit Organization

RESULTS:
NORMAL: NO EVIDENCE OF CONGENITAL OR ADULT ONSET INHERITED HEART DISEASE -- AUSCULTATION & ECHO
(NOTE: THE CONGENITAL CLEARANCE IS CONSIDERED PERMANENT; ADULT ONSET CLEARANCE VALID FOR 1 YEAR FROM TEST DATE 7/16/2018.)
EXAMINER: CC13-RICHARD COBER, DVM, DACVIM

owner

PAIGE E. JOHNSON
SHARON KAY JOHNSON
PO BOX 125
LEONARDTOWN, MD 20650

G.G.KELLER. D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

www.ofa.org

SpermVision®

Semen Analysis Report

Griz (aka: Griz)

Companion Animal Clinic of Gainesville
14760 Lee Hwy Gainesville VA 20155
Phone: 703-754-8387 Fax: 703-754-0533
Email: info@companionanimalclinicva.com Web Site: www.companionanimalclinicva.com

Donor Information — Owner: Sharon Johnson

Name: Griz (aka: Griz)			**Birth date:**
Breed: Mastiff		**Reg #:**	**DNA profile #:**
Primary Color:		**Secondary Color:**	
Tattoo:		**MicroChip:**	
Weight:		**Sex:**	
AKC Group:			

Sample Information — Collection Date: 04/30/2022

Sample Collection

Date/Time:	04/30/2022 / 4:17:38 PM	**Veterinarian:**	Natalia Kunze
Collection:	Manual w/Teaser	**Technician:**	Natalia Kunze
Received:	4:17:38 PM	**Time since last collection:**	171 days
Antibiotics:	No comments...	**Reason for evaluation:**	

Untreated Sample

Volume:	14 ml	**Type of semen:**	Fresh	**Semen Color:**	Normal
Bacteria:	No comments...	**Agglutination:**		**Prostate Cells:**	
		Leucocytes:		**Debris Type:**	
		Red Blood Cells:			

Sample Preparation

Technician:	Natalia Kunze	**Extender:**	AndroPro AI
Washes:	0	**Extender batch:**	
Centrifugation: ☐	**Purification:** ☐	**Dilution ratio:**	1 to 0

Griz (aka: Griz)

Companion Animal Clinic of Gainesville

Motility Information — Collection Date: 04/30/2022

Average Cell Analysis Information - 1993 Cells Analyzed 04/30/2022 4:18:37 PM

Sperm Concentration: 99.5 million/ml
Total Sperm: 1,393.00 million
Viable Sperm: 1,009.93 million

Motility: 81.38 %
Progressive motility: 72.50 %

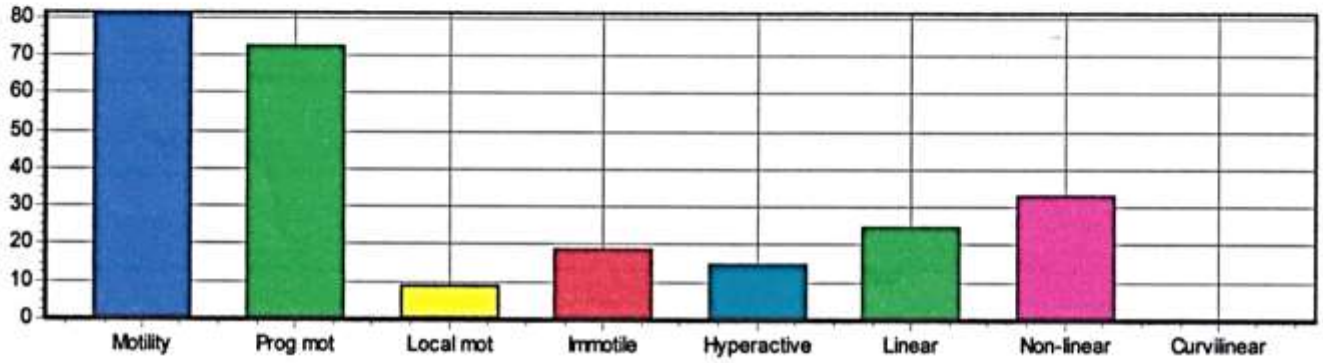
Local motility: 8.88 %
Immotile: 18.62 %

VCL: 226.60 µm/sec
VAP: 126.80 µm/sec
VSL: 103.30 µm/sec

LIN: 0.45
STR: 0.81

BCF: 21.05 hertz
ALH: 10.81 µm

Cell Classification Chart



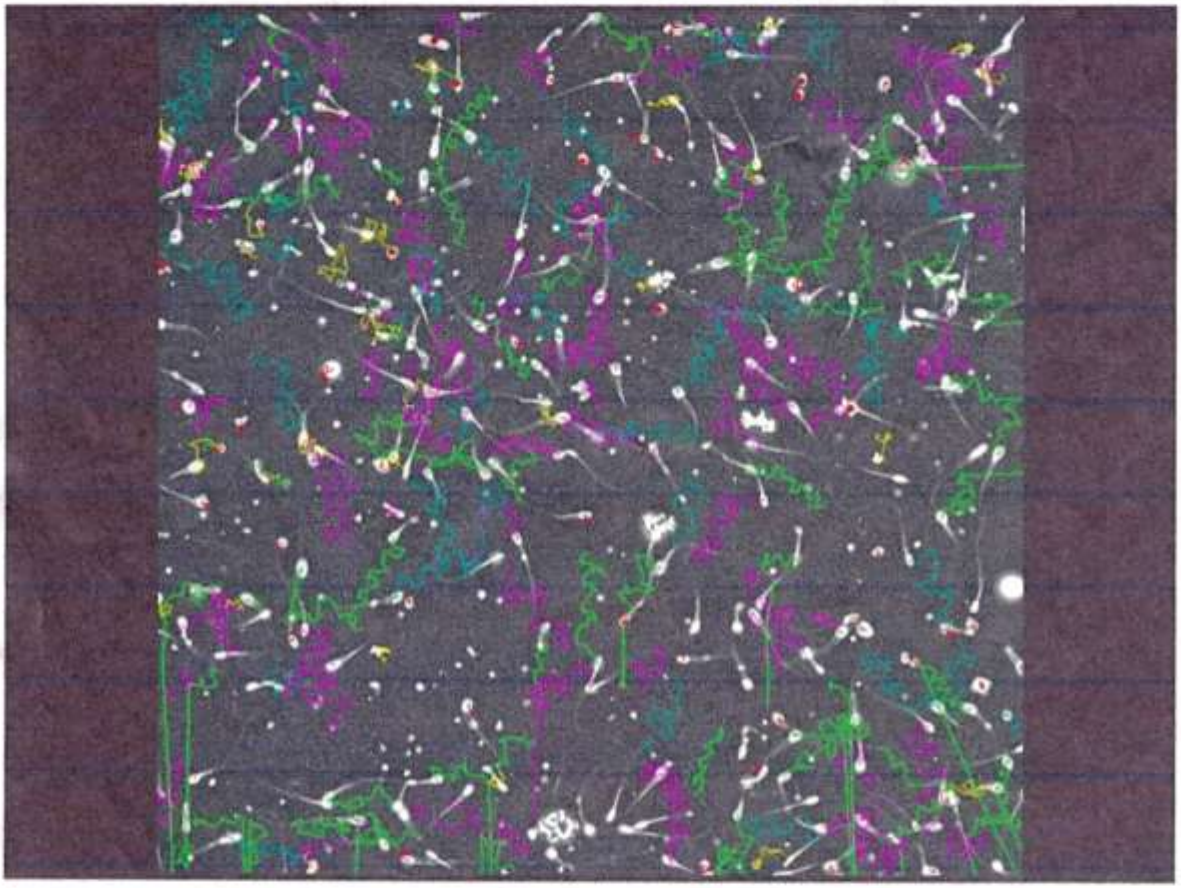
Griz (aka: Griz)

Companion Animal Clinic of Gainesville

Motility Information cont.

Collection Date: 04/30/2022

Motility Image - Field 7



Field Analysis Information	
Cells:	298
Concentration:	104.4 million/ml
Motility:	80.20
Progressive motility:	69.46
Local motility:	10.73
Immotile:	19.80

Field Summary	
Hyperactive:	14.09
Linear:	25.16
Non-linear:	30.20
Curvilinear:	0.00

Progressive Summary			
VCL:	219.10	LIN:	0.45
VAP:	122.90	STR:	0.81
VSL:	100.20	BCF:	21.86
		ALH:	10.13

Split 1/2 between 2 straws

each 500 x 10^6 prg. motile!

excellent