

MDD Offspring
Registration: R_9999999999999999
Breed: Airedoodle
Microchip Number: M_1010101010101010



Sample ID: DSPRRRY
Test Date: 5/6/2024
MyDogDNA

DNA Test Report

Owner Info

First Name

[REDACTED]

Last Name

[REDACTED]

Pet Info

Registered Name

MDD Offspring

Date of Birth

5/25/2022

Nickname (Call Name)

MDD Offspring_Nick_Name

Sample ID

DSPRRRY

Sex

Male

Registration

R_9999999999999999

Country of Origin

N/A

Microchip ID

M_1010101010101010

Owner Reported Breed

Airedoodle

Tattoo ID

T_1111111111111111

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Genetic Diversity (Heterozygosity)

MDD Offspring_Nick_Name's Percentage of Heterozygosity

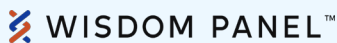
45%

Typical Range for Mixed-Breed Dogs

33 - 46%

MDD Offspring_Nick_Name's genome analysis shows an average level of genetic heterozygosity when compared with other mixed-breed dogs.

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Health Conditions Known in This Breed

Genetic Condition	Gene	Risk Variant	Copies	Result
Chondrodystrophy (CDDY) and Intervertebral Disc Disease (IVDD) Risk	FGF4 retrogene	Insertion	1	At Risk
Degenerative Myelopathy	SOD1	G>A	1	Notable
Factor VII Deficiency	F7	G>A	0	Clear
GM2 Gangliosidosis (Discovered in the Toy Poodle)	HEXB	Deletion	0	Clear
Hemophilia B (Discovered in the Airedale Terrier)	FIX	Insertion	0	Clear
Lung Developmental Disease (Discovered in the Airedale Terrier)	LAMP3	C>T	0	Clear
Neonatal Encephalopathy with Seizures	ATF2	T>G	0	Clear
Osteochondrodysplasia	SLC13A1	Deletion	0	Clear
Progressive Rod Cone Degeneration (prcd-PRA)	PRCD	G>A	0	Clear
Protein Losing Nephropathy	NPHS1	G>A	0	Clear
von Willebrand's Disease, type 1	VWF	G>A	0	Clear

Other Conditions Tested

Genetic Condition	Gene	Risk Variant	Copies	Result
Xanthinuria (Discovered in the Cavalier King Charles Spaniel)	Confidential	—	1	Notable
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 (Discovered in the Italian Greyhound)	ENAM	Deletion	0	Clear
Amelogenesis Imperfecta (Discovered in the Lancashire Heeler)	Confidential	—	0	Clear

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Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Amelogenesis Imperfecta (Discovered in the Parson Russell Terrier)	ENAM	C>T	0	Clear
Bandera's Neonatal Ataxia	GRM1	Insertion	0	Clear
Benign Familial Juvenile Epilepsy	LGI2	A>T	0	Clear
Bernard-Soulier Syndrome (Discovered in the Cocker Spaniel)	GP9	Deletion	0	Clear
Canine Congenital Stationary Night Blindness (Discovered in the Beagle)	LRIT3	Deletion	0	Clear
Canine Leukocyte Adhesion Deficiency (CLAD), type III	FERMT3	Insertion	0	Clear
Canine Multifocal Retinopathy 1	BEST1	C>T	0	Clear
Canine Multifocal Retinopathy 2	BEST1	G>A	0	Clear
Canine Multifocal Retinopathy 3	BEST1	Deletion	0	Clear
Canine Multiple Systems Degeneration (Discovered in the Chinese Crested Dog)	SERAC1	Deletion	0	Clear
Canine Scott Syndrome	ANO6	G>A	0	Clear
Cardiomyopathy and Juvenile Mortality (Discovered in the Belgian Shepherd)	YARS2	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
Chondrodysplasia (Discovered in Norwegian Elkhound and Karelian Bear Dog)	ITGA10	C>T	0	Clear
Cleft Lip & Palate with Syndactyly	ADAMTS20	Deletion	0	Clear
Cleft Palate	DLX6	C>A	0	Clear
CNS Atrophy with Cerebellar Ataxia (Discovered in the Belgian Shepherd)	SEPP1	Deletion	0	Clear

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Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Coat Color Dilution and Neurological Defects (Discovered in the Miniature Dachshund)	MYO5A	Insertion	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 Cornification (Discovered in the Labrador Retriever)	NSDHL	Deletion	0	Clear
Congenital Dys hormonogenic Hypothyroidism with Goiter (Discovered in the Shih Tzu)	SLC5A5	G>A	0	Clear
Congenital Eye Malformations (Discovered in the Golden Retriever)	SIX6	C>T	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 Muscular Dystrophy (Discovered in the Italian Greyhound)	LAMA2	G>A	0	Clear
Congenital Muscular Dystrophy (Discovered in the Staffordshire Bull Terrier)	LAMA2	Deletion	0	Clear
Congenital Myasthenic Syndrome (Discovered in the Golden Retriever)	COLQ	G>A	0	Clear
Congenital Myasthenic Syndrome (Discovered in the Heideterrier)	CHRNE	Insertion	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

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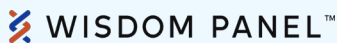
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Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Congenital Stationary Night Blindness (CSNB)	RPE65	A>T	0	Clear
Craniomandibular Osteopathy (Discovered in Scottish Terrier breeds)	SLC37A2	C>T	0	Clear
Craniomandibular Osteopathy (Discovered in the Australian Terrier)	COL1A1	C>T	0	Clear
Craniomandibular Osteopathy (Discovered in the Basset Hound)	SLC37A2	C>T	0	Clear
Craniomandibular Osteopathy (Discovered in the Weimaraner)	SLC35D1	Deletion	0	Clear
Cystic Renal Dysplasia and Hepatic Fibrosis	INPP5E	G>A	0	Clear
Cystinuria Type I-A	SLC3A1	C>T	0	Clear
Cystinuria Type II-A	SLC3A1	Deletion	0	Clear
Darier Disease (Discovered in the Irish Terrier)	ATP2A2	Insertion	0	Clear
Deafness and Vestibular Dysfunction (DINGS1), (Discovered in Doberman Pinscher)	PTPRQ	Insertion	0	Clear
Deafness and Vestibular Dysfunction (DINGS2), (Discovered in Doberman Pinscher)	MYO7A	G>A	0	Clear
Demyelinating Neuropathy	SBF2	G>T	0	Clear
Dental Hypomineralization	FAM20C	C>T	0	Clear
Dental-Skeletal-Retinal Anomaly (Discovered in the Cane Corso)	MIA3	I>S	0	Clear
Dilated Cardiomyopathy (Discovered in the Schnauzer)	RBM20	Deletion	0	Clear
Disproportionate Dwarfism (Discovered in the Dogo Argentino)	PRKG2	C>A	0	Clear
Dominant Progressive Retinal Atrophy	RHO	C>G	0	Clear
Dystrophic Epidermolysis Bullosa (Discovered in the Basset Hound)	COL7A1	Insertion	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)	Intergenic	Insertion	0	Clear

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Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Early Retinal Degeneration (Discovered in the Norwegian Elkhound)	STK38L	Insertion	0	Clear
Early-Onset Adult Deafness (Discovered in the Rhodesian Ridgeback)	EPS8L2	Deletion	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
Early-Onset Progressive Retinal Atrophy (Discovered in the Portuguese Water Dog)	Confidential	—	0	Clear
Early-Onset Progressive Retinal Atrophy, (Discovered in the Spanish Water Dog)	PDE6B	Deletion	0	Clear
Ehlers-Danlos Syndrome (Discovered in mixed breed)	COL5A1	G>A	0	Clear
Ehlers-Danlos Syndrome (Discovered in the Labrador Retriever)	COL5A1	Deletion	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 XI Deficiency	FXI	Insertion	0	Clear
Familial Nephropathy (Discovered in the English Cocker Spaniel)	COL4A4	A>T	0	Clear
Familial Nephropathy (Discovered in the English Springer Spaniel)	COL4A4	C>T	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
Generalized Progressive Retinal Atrophy (Discovered in the Schapendoes)	CCDC66	Insertion	0	Clear
Glanzmann Thrombasthenia Type I (Discovered in Great Pyrenees)	ITGA2B	C>G	0	Clear
Glanzmann Thrombasthenia Type I (Discovered in mixed breed dogs)	ITGA2B	C>T	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

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Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Glycogen Storage Disease Type Ia (Discovered in the German Pinscher)	G6PC	Insertion	0	Clear
Glycogen Storage Disease Type Ia (Discovered in the Maltese)	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
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 A (Discovered in the Labrador Retriever)	Confidential	—	0	Clear
Hemophilia B	FIX	G>A	0	Clear
Hemophilia B (Discovered in the Lhasa Apso)	FIX	Deletion	0	Clear
Hereditary Ataxia (Discovered in the Belgian Malinois)	SLC12A6	Insertion	0	Clear
Hereditary Ataxia (Discovered in the Norwegian Buhund)	KCNIP4	T>C	0	Clear
Hereditary Calcium Oxalate Urolithiasis, Type 1	Confidential	—	0	Clear
Hereditary Elliptocytosis	SPTB	C>T	0	Clear
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

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Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Hyperuricosuria	SLC2A9	G>T	0	Clear
Hypocatalasia	CAT	G>A	0	Clear
Hypomyelination	FNIP2	Deletion	0	Clear
Hypophosphatasia	Confidential	—	0	Clear
Ichthyosis (Discovered in the American Bulldog)	NIPAL4	Deletion	0	Clear
Ichthyosis (Discovered in the Great Dane)	SLC27A4	G>A	0	Clear
Ichthyosis Type 2 (Discovered in the Golden Retriever)	ABHD5	Deletion	0	Clear
Inflammatory Myopathy (Discovered in the Dutch Shepherd Dog)	SLC25A12	A>G	0	Clear
Inflammatory Pulmonary Disease (Discovered in the Rough Collie)	AKNA	Deletion	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
Intestinal Lipid Malabsorption (Discovered in the Australian Kelpie)	ACSL5	Deletion	0	Clear
Junctional Epidermolysis Bullosa (Discovered in the Australian Cattle Dog Mix)	LAMA3	T>A	0	Clear
Junctional Epidermolysis Bullosa (Discovered in the Australian Shepherd)	LAMB3	A>G	0	Clear
Juvenile Cataract (Discovered in the Wirehaired Pointing Griffon)	FYCO1	Deletion	0	Clear
Juvenile Dilated Cardiomyopathy (Discovered in the Toy Manchester Terrier)	Confidential	—	0	Clear
Juvenile Encephalopathy (Discovered in the Parson Russell Terrier)	Confidential	—	0	Clear
Juvenile Laryngeal Paralysis and Polyneuropathy	RAB3GAP1	Deletion	0	Clear
Juvenile Myoclonic Epilepsy	DIRAS1	Deletion	0	Clear
L-2-Hydroxyglutaric aciduria (Discovered in the Staffordshire Bull Terrier)	L2HGDH	T>C	0	Clear
L-2-Hydroxyglutaric Aciduria (Discovered in the West Highland White Terrier)	Confidential	—	0	Clear

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Genetic Condition	Gene	Risk Variant	Copies	Result
Lafora Disease (Linkage test)	NHLRC1	Insertion	0	Clear
Lagotto Storage Disease	ATG4D	G>A	0	Clear
Lamellar Ichthyosis	TGM1	Insertion	0	Clear
Laryngeal Paralysis (Discovered in the Bull Terrier and Miniature Bull Terrier)	RAPGEF6	Insertion	0	Clear
Leigh-like Subacute Necrotizing Encephalopathy (Discovered in the Yorkshire Terrier)	SLC19A3	Insertion	0	Clear
Lethal Acrodermatitis (Discovered in the Bull Terrier)	MKLN1	A>C	0	Clear
Leukodystrophy (Discovered in the Standard Schnauzer)	TSEN54	C>T	0	Clear
Ligneous Membranitis	PLG	T>A	0	Clear
Limb-girdle Muscular Dystrophy (Discovered in the Boston Terrier)	SGCD	—	0	Clear
Limb-girdle Muscular Dystrophy, Type L3 (Discovered in the Miniature Dachshund)	SGCA	G>A	0	Clear
Macrothrombocytopenia (Discovered in Norfolk and Cairn Terrier)	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
Mucopolysaccharidosis VI (Discovered in the Miniature Pinscher)	ARSB	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

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Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Muscular Dystrophy (Discovered in the Landseer)	COL6A1	G>T	0	Clear
Muscular Dystrophy (Discovered in the Norfolk Terrier)	Dystrophin	Deletion	0	Clear
Muscular Dystrophy-Dystroglycanopathy (Discovered in the Labrador Retriever)	LARGE	C>T	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 (Discovered in Australian Cattle Dog)	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)	HCRT2	G>A	0	Clear
Narcolepsy (Discovered in the Labrador Retriever)	HCRT2	G>A	0	Clear
Nemaline Myopathy	NEB	C>A	0	Clear
Neonatal Cerebellar Cortical Degeneration	SPTBN2	Deletion	0	Clear
Neuroaxonal Dystrophy (Discovered in Spanish Water Dog)	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 5 (Discovered in the Border Collie)	CLN5	C>T	0	Clear
Neuronal Ceroid Lipofuscinosis 5 (Discovered in the Golden Retriever)	CLN5	—	0	Clear
Neuronal Ceroid Lipofuscinosis 7	MFSD8	Deletion	0	Clear

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Genetic Condition	Gene	Risk Variant	Copies	Result
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
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
Palmoplantar Hyperkeratosis (Discovered in the Rottweiler)	DSG1	Deletion	0	Clear
Paroxysmal Dyskinesia	PIGN	C>T	0	Clear
Persistent Müllerian Duct Syndrome	AMHR2	C>T	0	Clear
Phosphofructokinase Deficiency	PFKM	G>A	0	Clear
Pituitary Dwarfism (Discovered in the Karelian Bear Dog)	POU1F1	C>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

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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-PRA 2 variant)	TTC8	Deletion	0	Clear
Progressive Retinal Atrophy (Discovered in the Golden Retriever - GR-PRA1 variant)	SLC4A3	Insertion	0	Clear
Progressive Retinal Atrophy (Discovered in the Lapponian Herder)	IFT122	C>T	0	Clear
Progressive Retinal Atrophy (Discovered in the Lhasa Apso)	Confidential	—	0	Clear
Progressive Retinal Atrophy (Discovered in the Miniature Long Haired Dachshund)	RPGRIP1	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)	Confidential	—	0	Clear
Progressive Retinal Atrophy (Discovered in the Shetland Sheepdog - CNGA1 variant)	CNGA1	Deletion	0	Clear
Progressive Retinal Atrophy (Discovered in the Swedish Vallhund)	MERTK	Insertion	0	Clear
Progressive Retinal Atrophy 1 (Discovered in the Italian Greyhound)	Confidential	—	0	Clear
Progressive Retinal Atrophy Type III	FAM161A	Insertion	0	Clear
Pyruvate Dehydrogenase Phosphatase 1 Deficiency	PDP1	C>T	0	Clear
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

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Genetic Condition	Gene	Risk Variant	Copies	Result
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
Sensorineural Deafness (Discovered in the Rottweiler)	LOXHD1	G>C	0	Clear
Sensory Ataxic Neuropathy	tRNATyr	Deletion	0	Clear
Sensory Neuropathy	FAM134B	Insertion	0	Clear
Severe Combined Immunodeficiency (Discovered in Frisian Water Dogs)	RAG1	G>T	0	Clear
Severe Combined Immunodeficiency (Discovered in Russell Terriers)	PRKDC	G>T	0	Clear
Shaking Puppy Syndrome (Discovered in the Border Terrier)	Confidential	—	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 (Discovered in Belgian Malinois - SDCA1)	KCNJ10	T>C	0	Clear
Spongy Degeneration with Cerebellar Ataxia (Discovered in Belgian Malinois - SDCA2)	ATP1B2	Insertion	0	Clear
Stargardt Disease (Discovered in the Labrador Retriever)	ABCA4	Insertion	0	Clear
Startle Disease (Discovered in Irish Wolfhounds)	SLC6A5	G>T	0	Clear
Startle Disease (Discovered in the Miniature American Shepherd)	Confidential	—	0	Clear
Succinic Semialdehyde Dehydrogenase Deficiency (Discovered in the Saluki)	ALDH5A1	G>A	0	Clear
Thrombopathia (Discovered in the Basset Hound)	RASGRP1	Deletion	0	Clear
Thrombopathia (Discovered in the Eskimo Spitz)	RASGRP1	—	0	Clear

MDD Offspring
Registration: R_999999999999999
Breed: Airedoodle
Microchip Number: M_10101010101010



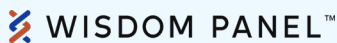
Sample ID: DSPRRRY
Test Date: 5/6/2024
MyDogDNA

DNA Test Report

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Trapped Neutrophil Syndrome	VPS13B	Deletion	0	Clear
Van den Ende-Gupta Syndrome	SCARF2	Deletion	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)	Confidential	—	0	Clear
Xanthinuria (Discovered in the Toy Manchester Terrier)	Confidential	—	0	Clear

MDD Offspring
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Sample ID: DSPRRRY
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DNA Test Report

Coat Color

Genetic Trait	Gene	Variant	Copies	Result
Fawn	ASIP	a ^y	0	No effect
Recessive Black	ASIP	a	0	No effect
Tan Points	ASIP	a ^t	2	Tan points possible
Dominant Black	CBD103	K ^B	1	Black or brindle possible
Sable (Discovered in the Cocker Spaniel)	Confidential	—	0	No effect
Mask	MC1R	E ^m	0	No effect
Recessive Red (e1)	MC1R	e ¹	2	Cream to red coat likely
Recessive Red (e2)	MC1R	e ²	0	No effect
Recessive Red (e3)	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

Color Modification

Genetic Trait	Gene	Variant	Copies	Result
Cocoa (Discovered in the French Bulldog)	HPS3	co	0	No effect
Red Intensity	MFSD12	i	1	No effect
Dilution (d1) Linkage test	MLPH	d ¹	0	No effect
Dilution (d2)	MLPH	d ²	0	No effect
Dilution (d3)	MLPH	d ³	0	No effect
Chocolate (basd)	TYRP1	b ^{asd}	0	No effect
Chocolate (bc)	TYRP1	b ^c	0	No effect
Chocolate (bd)	TYRP1	b ^d	0	No effect

DNA Test Report

Color Modification (continued)

Genetic Trait	Gene	Variant	Copies	Result
Chocolate (be)	TYRP1	b ^e	0	No effect
Chocolate (bh)	TYRP1	b ^h	0	No effect
Chocolate (bs)	TYRP1	b ^s	0	No effect

Coat Patterns

Genetic Trait	Gene	Variant	Copies	Result
Piebald	MITF	s ^p	2	Particolor or white markings possible
Merle	PMEL	M	0	No effect
Harlequin	PSMB7	H	0	No effect
Saddle Tan	RALY	-	2	Saddle possible
Roan (Linkage test)	USH2A	T ^r	0	No effect

Coat Length and Curl

Genetic Trait	Gene	Variant	Copies	Result
Long Hair (lh1)	FGF5	lh ¹	2	Long coat
Long Hair (lh2)	FGF5	lh ²	0	No effect
Long Hair (lh3)	FGF5	lh ³	0	No effect
Long Hair (lh4)	FGF5	lh ⁴	0	No effect
Long Hair (lh5)	FGF5	lh ⁵	0	No effect
Curly Coat	KRT71	C	1	Soft curl or wave likely

Hairlessness

Genetic Trait	Gene	Variant	Copies	Result
Hairlessness (Discovered in the Chinese Crested Dog) Linkage test	FOXI3	Hr ^{cc}	0	No effect

MDD Offspring
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DNA Test Report

Hairlessness (continued)

Genetic Trait	Gene	Variant	Copies	Result
Hairlessness (Discovered in the American Hairless Terrier)	SGK3	hr ^{ah}	0	No effect
Hairlessness (Discovered in the Scottish Deerhound)	SGK3	hr ^{sd}	0	No effect

Shedding

Genetic Trait	Gene	Variant	Copies	Result
Reduced Shedding	MC5R	sd	2	Low shedder

More Coat Traits

Genetic Trait	Gene	Variant	Copies	Result
Hair Ridge	FGF3, FGF4, FGF19, ORAOV1	R	0	No effect
Furnishings	RSP02	F	1	Furnishings likely
Albino	SLC45A2	c ^{al}	0	No effect

Head Shape

Genetic Trait	Gene	Variant	Copies	Result
Short Snout (BMP3 variant)	BMP3	-	0	No effect
Short Snout (SMOC2 variant)	SMOC2	-	1	Shortened snout likely

Eye Color

Genetic Trait	Gene	Variant	Copies	Result
Blue Eyes (Discovered in the Siberian Husky)	ALX4	-	0	No effect

MDD Offspring
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DNA Test Report

Ears

Genetic Trait	Gene	Variant	Copies	Result
Floppy Ears	MSRB3	-	1	Partially floppy ears more likely

Extra Toes

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

More Body Features

Genetic Trait	Gene	Variant	Copies	Result
Back Muscle and Bulk	ACSL4	-	0	No effect
High Altitude Adaptation	EPAS1	-	0	No effect
Short Legs (Chondrodysplasia, CDPA)	FGF4	-	1	Slightly shortened legs likely
Short Legs (Chondrodystrophy, CDDY)	FGF4	-	1	Slightly shortened legs likely
Short Tail	T-box	T	0	Full tail length likely

MDD Offspring

Call name	Date of birth	Tattoo number	Kennel Club or Registry
MDD Offspring_Nick_Name	2022-05-25	T_111111111111111111	Alianz Canine Worldwide
Breed	Genetic sex	Microchip number	Registration number
Airedoodle	Male	M_1010101010101010	R_99999999999999

SNP - ISAG 2020 Panel 1

1	Cfam_1:3962719	G/G	39	Cfam_11:23907101	A/C	77	Cfam_25:2073511	A/A
2	Cfam_1:20842130	A/G	40	Cfam_11:65603333	A/A	78	Cfam_25:33986348	A/A
3	Cfam_1:70238933	A/G	41	Cfam_12:5579055	G/G	79	Cfam_25:47708600	A/A
4	Cfam_1:80971770	A/A	42	Cfam_12:35306641	G/G	80	Cfam_26:20004896	A/A
5	Cfam_1:106430955	A/A	43	Cfam_12:55201839	A/A	81	Cfam_26:35071515	G/G
6	Cfam_1:119414584	G/G	44	Cfam_12:68125319	A/G	82	Cfam_27:2619058	A/A
7	Cfam_2:2610859	G/G	45	Cfam_13:8704192	A/G	83	Cfam_27:22599860	G/G
8	Cfam_2:38293797	G/G	46	Cfam_13:59896033	A/C	84	Cfam_27:41049333	A/A
9	Cfam_2:77806065	G/G	47	Cfam_14:50063321	A/A	85	Cfam_28:9877730	A/G
10	Cfam_3:1252765	A/A	48	Cfam_14:58465266	A/G	86	Cfam_28:18509221	A/G
11	Cfam_3:24757939	A/A	49	Cfam_15:19299365	A/A	87	Cfam_28:38885325	A/A
12	Cfam_3:73570828	A/G	50	Cfam_15:22834903	A/C	88	Cfam_29:251970	G/G
13	Cfam_4:31301072	G/G	51	Cfam_16:29634940	G/G	89	Cfam_29:9625359	A/G
14	Cfam_4:64121754	G/G	52	Cfam_16:46884446	C/C	90	Cfam_29:17561258	G/G
15	Cfam_4:75910211	A/A	53	Cfam_16:57958947	A/A	91	Cfam_29:36319325	C/C
16	Cfam_4:86049027	A/G	54	Cfam_17:10649078	G/G	92	Cfam_30:3896482	A/G
17	Cfam_5:5410890	A/A	55	Cfam_17:34462308	G/G	93	Cfam_30:15542105	A/A
18	Cfam_5:26320165	A/A	56	Cfam_17:39124697	A/A	94	Cfam_30:32852404	A/A
19	Cfam_5:85451804	G/G	57	Cfam_18:6745949	A/A	95	Cfam_31:21068798	G/G
20	Cfam_6:11553458	G/G	58	Cfam_18:54361347	A/G	96	Cfam_31:39391935	A/G
21	Cfam_6:33976751	G/G	59	Cfam_19:841347	A/G	97	Cfam_32:679380	G/G
22	Cfam_6:64006720	A/G	60	Cfam_19:15926130	A/A	98	Cfam_32:17792284	A/G
23	Cfam_7:76294	G/G	61	Cfam_19:27288167	C/C	99	Cfam_32:32382778	G/G
24	Cfam_7:15011628	A/A	62	Cfam_19:47470564	C/C	100	Cfam_33:15018500	G/G
25	Cfam_7:36555518	A/G	63	Cfam_20:13740894	G/G	101	Cfam_33:23742061	A/G
26	Cfam_8:5291824	A/G	64	Cfam_20:49900586	A/G	102	Cfam_34:195313	A/A
27	Cfam_8:18121580	A/A	65	Cfam_20:57167714	A/G	103	Cfam_34:24396298	A/G
28	Cfam_8:45852939	A/A	66	Cfam_21:15558670	A/A	104	Cfam_35:15345329	C/C
29	Cfam_8:63196958	A/A	67	Cfam_21:25537675	A/G	105	Cfam_36:3565500	A/G
30	Cfam_9:22610227	A/A	68	Cfam_21:35719434	A/A	106	Cfam_36:12714421	A/G
31	Cfam_9:40096141	A/G	69	Cfam_22:641125	A/G	107	Cfam_36:23459390	A/G
32	Cfam_9:52710991	A/G	70	Cfam_22:26694580	G/G	108	Cfam_37:9398945	A/G
33	Cfam_9:60437147	A/G	71	Cfam_22:55308193	C/C	109	Cfam_37:15436615	A/G
34	Cfam_10:10652659	A/G	72	Cfam_23:42886681	A/A	110	Cfam_37:27667297	G/G
35	Cfam_10:22409408	A/G	73	Cfam_23:50772488	A/A	111	Cfam_38:9224942	A/C
36	Cfam_10:30034450	A/G	74	Cfam_24:23393510	A/A	112	Cfam_38:17657161	G/G
37	Cfam_10:66922269	A/A	75	Cfam_24:29909901	G/G	113	Cfam_38:20441216	G/G
38	Cfam_11:5318488	A/A	76	Cfam_24:47381908	A/A			

SNP - ISAG 2020 Panel 2

1	Cfam_1:72613047	A/A	41	Cfam_12:8532712	A/G	81	Cfam_27:42526114	A/G
2	Cfam_1:74450772	A/G	42	Cfam_12:23059939	G/G	82	Cfam_28:9703418	G/G
3	Cfam_1:119306331	A/A	43	Cfam_12:40681020	A/A	83	Cfam_28:12804225	A/G
4	Cfam_3:10255068	G/G	44	Cfam_12:70657733	A/G	84	Cfam_28:34478533	G/G
5	Cfam_3:37849557	A/A	45	Cfam_13:40616856	G/G	85	Cfam_28:35104850	A/A
6	Cfam_3:43055696	A/A	46	Cfam_14:55735620	G/G	86	Cfam_29:4020192	A/G
7	Cfam_3:43063677	A/A	47	Cfam_16:29675662	C/C	87	Cfam_29:4022252	A/G
8	Cfam_3:64084413	A/G	48	Cfam_16:58093031	C/C	88	Cfam_29:19681270	G/G
9	Cfam_3:90291255	A/G	49	Cfam_17:9407683	G/G	89	Cfam_29:22992304	G/G
10	Cfam_3:91626907	A/G	50	Cfam_17:12787849	C/C	90	Cfam_30:10012939	G/G
11	Cfam_4:42104780	A/A	51	Cfam_17:57371669	G/G	91	Cfam_30:11735245	A/G
12	Cfam_4:67040898	A/A	52	Cfam_18:10189759	G/G	92	Cfam_30:27619023	A/G
13	Cfam_4:70217695	A/A	53	Cfam_18:16385020	G/G	93	Cfam_31:20912553	A/A
14	Cfam_5:13080303	A/G	54	Cfam_18:16388978	C/C	94	Cfam_32:13183511	A/A
15	Cfam_5:36642434	A/G	55	Cfam_18:31579269	G/G	95	Cfam_33:15233992	G/G
16	Cfam_5:44650576	G/G	56	Cfam_18:47325586	A/G	96	Cfam_33:22070526	A/G
17	Cfam_5:55349573	A/A	57	Cfam_19:30246414	A/A	97	Cfam_33:22472901	A/C
18	Cfam_5:64611038	G/G	58	Cfam_19:40189405	C/C	98	Cfam_33:22648231	A/G
19	Cfam_7:3318809	A/G	59	Cfam_19:42756283	A/A	99	Cfam_34:24351570	A/G
20	Cfam_7:6423299	A/G	60	Cfam_20:6046176	G/G	100	Cfam_34:34993916	A/A
21	Cfam_7:15017979	A/A	61	Cfam_20:45777531	A/G	101	Cfam_34:37323213	G/G
22	Cfam_7:76487265	A/G	62	Cfam_20:48602465	A/A	102	Cfam_34:41703614	A/A
23	Cfam_8:6188937	A/G	63	Cfam_21:22581321	A/A	103	Cfam_35:15283717	G/G
24	Cfam_8:19076567	A/A	64	Cfam_21:29796784	A/A	104	Cfam_36:288045	A/A
25	Cfam_8:24614720	G/G	65	Cfam_21:31751817	A/A	105	Cfam_36:9241262	A/G
26	Cfam_8:52381322	G/G	66	Cfam_22:20498421	A/G	106	Cfam_36:10084888	A/G
27	Cfam_8:67183794	G/G	67	Cfam_22:33934047	A/G	107	Cfam_36:12723744	A/C
28	Cfam_9:20867959	G/G	68	Cfam_22:37522364	A/G	108	Cfam_36:18627936	A/A
29	Cfam_9:32506288	A/G	69	Cfam_22:39647748	G/G	109	Cfam_37:18338930	C/C
30	Cfam_9:50114927	A/A	70	Cfam_22:61153661	A/G	110	Cfam_37:26611359	A/A
31	Cfam_9:56021221	G/G	71	Cfam_23:44497217	G/G	111	Cfam_37:28611801	A/A
32	Cfam_10:8085469	A/A	72	Cfam_23:48055836	A/A	112	Cfam_37:30110473	A/A
33	Cfam_10:14685262	G/G	73	Cfam_24:18599997	G/G	113	Cfam_37:30902202	G/G
34	Cfam_10:39548483	G/G	74	Cfam_24:27925354	A/A	114	Cfam_38:13098194	C/C
35	Cfam_10:47923623	A/A	75	Cfam_24:30954773	A/G	115	Cfam_38:15271384	A/G
36	Cfam_10:57954366	A/G	76	Cfam_24:43589304	A/G	116	Cfam_38:19172567	C/C
37	Cfam_11:1161870	A/A	77	Cfam_24:45191477	A/G	117	Cfam_38:20930997	A/A
38	Cfam_11:62157625	G/G	78	Cfam_25:4614777	G/G	SEX	Cfam_x:7828353	X/Y
39	Cfam_11:70698603	A/C	79	Cfam_27:20948372	A/A			
40	Cfam_12:6337286	A/G	80	Cfam_27:34444177	G/G			

