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CERTIFICATE OF RESULTS FOR SAMPLE ID #:

496998

OWNER'S NAME: WENDY SMITH
PET'S NAME*: OLIVER
PET'S REGISTRATION #: ASDT-OK-2202834
PET'S BREED: TOY AUSTRALIAN SHEPHERD
DATE TESTED: 2/25/2025

TEST	RESULT**	TEST RESULT EXPLANATION***
NEUROAXONAL DYSTROPHY SHEPHERD TYPE (NAD-SHEP)	A	(CLEAR/NORMAL): These dogs have two copies of the normal gene and will neither develop Neuroaxonal Dystrophy nor pass this mutation to their offspring.

*GenSol warrants its test results to be accurate for the sample obtained from the above pet. In the event of a valid claim, owner's sole remedy is a refund of the fee paid. IN NO EVENT SHALL GENSOLO BE LIABLE FOR INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND. Any claim must be asserted within one year of the report of test results.

**All samples submitted to GenSol become the property of GenSol and may be used for internal quality control and/or research purposes. Test results provide information concerning a pet's DNA sequence and are not an indication or guarantee of pet's disease state or condition. Test results alone should not be used to diagnosis, treat or prevent disease.

***For detailed result explanation visit www.gensoldx.com. Please consult a licensed veterinarian to discuss the implications.

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FAST - ACCURATE - AFFORDABLE

Dog Information

Angel Allen
OWNER NAME

A2A'S OLIVER TWIST @AA (Oliver)	Male	Canine Genetic Health Screen
NAME	SEX	TEST
Australian Shepherd Group	October 9th, 2021	January 28th, 2023
Breed with variety:	DATE OF BIRTH	TEST DATE
56.2% Miniature/MAS-type Australian Shepherd	n/a	
43.8% Australian Shepherd	MICROCHIP	
GENETIC BREED		
n/a		
REGISTRATION		

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDATION
Canine Multifocal Retinopathy, cmr1	BEST1/VMD2 (Exon 2)	CC	Clear	○
Collie Eye Anomaly, Choroidal Hypoplasia, CEA	NHEJ1 (Intron 4)	NN	Clear	○
Craniomandibular Osteopathy, CMO	SLC37A2 (Exon 15)	CC	Clear	○
Day Blindness, Cone Degeneration, Achromatopsia	CNGB3	NN	Clear	○
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	○
Hereditary Cataracts, Early-Onset Cataracts, Juvenile Cataracts	HSF4	NN	Clear	○
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	GG	Clear	○
MDR1 Drug Sensitivity	ABCB1	NN	Clear	○
Neuronal Ceroid Lipofuscinosis 6, NCL 6	CLN6 (Exon 7)	TT	Clear	○
Neuronal Ceroid Lipofuscinosis 8, NCL 8	CLN8	GG	Clear	○
Progressive Retinal Atrophy, prcd	PRCD Exon 1	GG	Clear	○
Junctional Epidermolysis Bullosa	LAMB3 Exon 11	TT	Clear	○

Dog Information

A2A'S OLIVER TWIST @AA (Oliver)
NAME

TRAIT TESTS (2/3)

	RESULT	GENETIC RESULT
Coat Color		
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits		
Furnishings (RSPO2) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely long coat	TT
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE	Likely not albino	NN
Coat Texture (KRT71)	Likely straight coat	CC
Other Body Features		
Muzzle Length (BMP3)	Likely medium or long muzzle	CC
Tail Length (T)	Likely normal-length tail	CC
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws	CC