Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
✓	Hereditary Ataxia (Australian Shepherd Type)	RAB24	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Hereditary Cataract (Dominant)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Chondrodysplasia (CDPA) & Chondrodystrophy (CDDY and IVDD)		WT/WT|WT/WT	NORMAL (N/N) FOR BOTH THE CFA18 (CDPA - SHORT LIMB) & CFA12 (CDDY - IVDD)
✓	Progressive Rod Cone Degeneration (prcd) - PRA	PRCD	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Neuronal Ceroid Lipofuscinosis 6 (Australian Shepherd Type)	CLN6	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Neuronal Ceroid Lipofuscinosis 6	CLN6	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
✓	Collie Eye Anomaly/Choroidal Hypoplasia	NHEJ1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Ivermectin Sensitivity MDR1 (Multi Drug Resistance)	MDR1		POSITIVE HETEROZYGOUS (P/N) - [ONE COPY OF THE DOMINANT VARIANT DETECTED]
✓	Multifocal Retinopathy CMR1 (Mastiff/Bull Breeds Type)	BEST1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Juvenile Dermatomyositis [MAP3K7CL RISK ALLELE]	MAP3K7CL		bb - NO MAP3K7CL VARIANT DETECTED [THIS IS ONE OF THE 3 LOCI ASSOCIATED WITH DERMATOMYOSITIS]
✓	Hyperuricosuria	SLC2A9	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Craniomandibular Osteopathy (Terrier Type)	SLC37A2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
✓	von Willebrand's Disease Type I	VWF	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Exercise Induced Collapse (Retriever Type)	DNM1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Achromatopsia (Shepherd/Arctic Breed Type)	CNGB3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Factor VII Deficiency	F7	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Adult Onset Deafness Border Collie (Linkage Association Test)	USP31		NORMAL (N/N) FOR THE EAOD RISK VARIANT [RESEARCH ONLY]
✓	Hereditary Cataract	HSF4	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
✓	Degenerative Myelopathy	SOD1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis 10 (American Bulldog Type)	CTSD	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis 5 (Border Collie Type)	CLN5	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis 1 (Dachshund Type)	PPT1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis 4A - Cerebellar Ataxia (American Staffordshire Terrier Type)	NCL-A	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neurodegenerative Vacuolar Storage Disease (Lagotto RomagnoloType)	ATG4D	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Neuronal Ceroid Lipofuscinosis 8 (English Setter Type)	CLN8	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis A (Tibetan Terrier Type)	ATP13A2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuroaxonal Dystrophy (Spanish Water Dog Type)	TECPR2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis MFSD8 (Chinese Crested Type)	MFSD8	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis NCL (Cane Corso Type)	PPT1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Nonsyndromic Hearing Loss	LOXHD1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Neuronal Ceroid Lipofuscinosis NCL (Golden Retriever Type)	CLN5	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Periodic Fever Syndrome (Shar Pei Fever)	MTBP	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Polyneuropathy and Neuronal Vacuolation (JLPP)	RAB3GAP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Polyneuropathy (NDRG1) (Greyhound)	NDRG1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Polyneuropathy (NDRG1) (Alaskan Malamute)	NDRG1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Polycystic Kidney Disease (Bull Terrier Type)	PKD1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Pituitary Dwarfism (Karelian Bear Dog Type)	POU1F1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Phosphofructokinase Deficiency (Spaniel Type)	PFKM	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Phosphofructokinase Deficiency (German Spaniel)	PFKM	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Paroxysmal Exercise-Induced Dyskinesia (PED) (Shetland Sheepdog Type)	PCK2_413_GA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis NCL (Saluki Type)	CLN8	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Osteogenesis Imperfecta SERPINH1 (Dachshund Type)	SERPINH1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Osteogenesis Imperfecta (Golden Retriever Type)	COL1A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Osteogenesis Imperfecta (Chow Chow)	COL1A2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Osteogenesis Imperfecta (Beagle Type)	COL1A2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Osteochondrodysplasia (Min Poodle Type)	SLC13A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Oculo-Skeletal Dysplasia (Labrador Retriever Type)	COL9A3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuroaxonal Dystrophy (Papillon Type)	PLA2G6	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Neuronal Ceroid Lipofuscinosis NCL 12 (Cattle Dog Type)	ATP	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuroaxonal Dystrophy (Rottweiler Type)	VSP11	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Achromatopsia (German Shorthaired Pointer Type)	CNGB3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuroaxonal Dystrophy (Giant Schnauzer Type)	MFN2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis VI (Miniature Schnauzer Type)	ARSB	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Myelin and Lysosomal Storage Disease (Weimaraner Type)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Musladin-Lueke Syndrome (Beagle Type)	ADAMTSL2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Muscular Dystrophy (Landseer Type)	COL6A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Muscular Dystrophy (Golden Retriever Type)	DMD	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Muscle Hypertrophy and Gait (French Bulldog Type)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mullerian Duct Syndrome (Miniature Schnauzer Type)	AMHR2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis VII - Type II (German Shepherd/Belgian Shepherd Type)	GUSB	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Mucopolysaccharidosis VI (Great Dane Type)	ARSB	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Myotonia Congenita (American Bulldog Type)	CLCN1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis Type VII (Brazilian Terrier Type)	GUSB	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis Type I (Plott Hound Type)	IDUA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis IIIB (Schipperke Type)	NAGLU	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis (Huntaway Type)	SGSH	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Microphthalmia, Anophthalmia & Coloboma (Wheaten Terrier Type)	RBP4	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	May-Hegglin Anomaly (Pug Type)	MYH9	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Malignant Hyperthermia	RYR1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Myostatin Deficiency	MSTN	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Myotonia Congenita (Labrador Retriever Type)	CLCN1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neonatal Encephalopathy (Poodle Type)	ATF2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Myxomatous Mitral Valve Disease 5 [NEBL498 Risk Variant]	NEBL		NEGATIVE FOR NEBL5_498 RISK VARIANT - NO PUBLISHED ASSOCIATION TO NEBL3_724 CANDIDATE VARIANT
	Neonatal Cerebellar Cortical Degeneration (Beagle Type)	SPTBN2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neonatal Ataxia (Coton du Tulear Type)	GRM1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Necrotising Meningoencephalitis (NME)	HLA-DRB1		N/N - NO COPY OF THE PDE/NME ASSOCIATED RISK MARKER DETECTED
	Polyneuropathy GJA9 (Leonberger/St Bernard Type)	GJA9	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Narcolepsy (Labrador)	HCRTR2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Narcolepsy (Dobermann Type)	HCRTR2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Narcolepsy (Dachshund Type)	HCRTR2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Myxomatous Mitral Valve Disease 4 [NEBL890 Risk Variant]	NEBL		NEGATIVE FOR NEBL4_890 RISK VARIANT - NO PUBLISHED ASSOCIATION TO NEBL3_724 CANDIDATE VARIANT
	Myotonia Congenita (Miniature Schnauzer Type)	CLCN1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Myxomatous Mitral Valve Disease 1 [NEBL535 Risk Variant]	NEBL		HETEROZYGOUS FOR NEBL1_535 RISK VARIANT - LINKED TO NEBL3_724 CANDIDATE VARIANT
	Myotubular Myopathy X-Linked (Rottweiler Type)	MTM1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Myotubular Myopathy X-Linked (Labrador Retriever Type)	MTM1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Myotubular Myopathy 1 (Boykin Spaniel Type)	MTM1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Myotonia Hereditaria (Cattle Dog Type)	CLCN1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Polyneuropathy ARHGEF10 (Leonberger/Saint Bernard Type)	ARHGEF10	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Primary Ciliary Dyskinesia (Old English Sheepdog Type)	CCDC39	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Polyneuropathy with Ocular Abnormalities and Neuronal Vacuolation	RAB3GAP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Spinocerebellar Ataxia (CAPN1)	CAPN1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Stickler Syndrome Type II (Old English Sheepdog Type)	COL11A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Startle Disease (Spanish Greyhound Type)	SLC6A5_546_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Stargardt Disease (Retinal Degeneration)	ABCA4	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Spongy Degeneration with Cerebellar Ataxia (SDCA2) Belgian Shepherd	SDCA2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Spongy Degeneration with Cerebellar Ataxia (KCNJ10)	KCNJ10	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Spondylocostal Dysostosis (Miniature Schnauzer Type)	HES7	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Spinocerebellar Ataxia (Jack Russell Type)	KCNJ10	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Spinocerebellar Ataxia (Alpine Dachsbracke Type)	SCN8A	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Thrombasthenic Thrombopathia (Otterhound Type)	ITGA2B	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Spinocerebellar Ataxia	XCNJ10	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Spinal Dysraphism (Weimaraner Type)	NKX2-8	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Skeletal Dysplasia 2 (Mild Disproportionate Dwarfism)	COL11A2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Severe Combined Immunodeficiency Disease, X-Linked (Corgi Type)	IL2RG_459_Ins	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Severe Combined Immunodeficiency Disease, X-Linked (Basset Hound Type)	IL2RG_657_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Severe Combined Immunodeficiency Disease (Terrier Type)	PRKDC_588_CA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

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Breed Sense	Disease	Gene	Genotype	Interpretation
	Severe Combined Immunodeficiency (Frisian Water Dog)	DNA-dependent protein kinase, catalytic subunit	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Sensory Neuropathy (Border Collie Type)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Succinic Semialdehyde Dehydrogenase Deficiency (SSADHD)	ALDH5A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Thrombopathia (Basset Hound Type)	RASGRP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Sarcoglycan Deficient Muscular Dystrophy (SDMD)	SGCA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	von Willebrand's Disease Type II	vWF	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Xanthine Urolithiasis (Manchester Terrier Type)	MOCOS	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Xanthine Urolithiasis (Dachshund Type)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Xanthine Urolithiasis (Cavalier King Charles Spaniel Type)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	X-Linked PRA2 (Miniature Schnauzer Type)	XLPRA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	X-Linked PRA (Samoyed/Husky Type)	RPGR	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	von Willebrand's Disease Type III	VWF	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	von Willebrand's Disease Type II (German Wirehaired Pointer)	VWF	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	von Willebrand Disease III (Shetland Sheepdog Type)	VWF	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Thrombopathia (Newfoundland Type)	RASGRP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	von Willebrand Disease III (Kooikerhondje Type)	VWF	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Van den Ende-Gupta Syndrome (Wire Fox Terrier Type)	SCARF2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ullrich-Like Muscular Dystrophy, Variant 2	COL6A2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Ullrich-Like Muscular Dystrophy, Variant 1		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Type B PRA 2 [HIVEP3] (Miniature Schnauzer Type)	HIVEP3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Type A PRA 1 (Miniature Schnauzer Type)	PDC	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Trapped Neutrophil Syndrome (Border Collie Type)	VPS13B	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Thrombopathia (Platelet Dysfunction)	RASGRP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Scott Syndrome (German Shepherd Type)	TMEM16F gene	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Sanfilippo Syndrome Type A / Mucopolysaccharidosis IIIA (Dachshund Type)	SGSH	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Post Operative Haemorrhage / Platelet Disorder (Mountain Dog Type)	P2RY12	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Epidermal Nevi		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy (Puli Type)	BBS4	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy (Giant Schnauzer Type)	NECAP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy - rcd3 (Corgi/Crested Type)	PDE6A	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Progressive Retinal Atrophy - rcd1 (Irish Setter)	PDE6B	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy - Late Onset (Basenji Type)	SAG	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy - crd2PRA	IQCB1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy - crd1PRA	PDE6B	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Primary Open Angle Glaucoma and Primary Lens Luxation (Shar Pei Type)	ADAMTS17_387_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy 3	FAM161A	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Primary Open Angle Glaucoma (Beagle Type)	ADAMTS10	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Primary Open Angle Glaucoma (Basset Fauve de Bretagne Type)	ADAMTS17	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Primary Lens Luxation	ADAMTS17	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Primary Hyperoxaluria	AGXT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Primary Glaucoma	ADAMTS10	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Macrothrombocytopenia (Cairn/Norfolk Terrier Type)	TUBB1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Primary Ciliary Dyskenesia (Malamute Type)	NME5 on chromosome 11	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Prekallikrein Deficiency (Shih Tzu Type)	KLKB1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy (Shetland Sheepdog)	CNGA1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy Dominant (Mastiff Type)	RHO	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Retinopathy (Vallhund Type)	MERTK	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Raine Syndrome Dental Hypomineralisation (Border Collie)	FAM20C	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Retinitis Pigmentosa (Lapponian Herder Type)	Retinitis Pigmentosa (RP) is a group of genetic disorders typically characterized by the progressive loss of photoreceptor cells in the retina, leading to diminished vision and, in many cases, eventual blindness. The "Lapponian Herder Type" refers to a particular form of RP that affects the Lapponian Herder, a breed of dog. ### Overview of Lapponian Herder and RP The Lapponian Herder is a	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Recurrent Inflammatory Pulmonary (Collie Type)	AKNA on chromosome 11	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Pyruvate Kinase Deficiency (Terrier Type)	PKLR	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy PRA1 (Papillon Type)	CNGB1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Pyruvate Kinase Deficiency (Pug)	PKLR	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Pyruvate Kinase Deficiency (Labrador Type)	PKLR	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Pyruvate Kinase Deficiency (Beagle Type)	PKLR_826_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Pyruvate Kinase Deficiency (Basenji Type)	PKLR	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Pyruvate Dehydrogenase Phosphatase Deficiency (Clumber Spaniel Type)	PDP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy, PRA4 (Lhasa Apso Type)	IMPG2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy, Early Onset (Spanish Water Dog Type)	PDE6B_235_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy RCD4	C2orf71	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Macular Corneal Dystrophy (Labrador Type)	CHST6	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	L2-Hydroxyglutaric Aciduria (Yorkshire Terrier Type)	L2HGDH_190_CT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Lundehund Syndrome	LEPREL1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Stationary Night Blindness	RPE65	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria (SLC3A1) Labrador Retriever Type	SLC3A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria (SLC3A1) (Australian Cattle Dog Type)	SLC3A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria (Newfoundland Type)	SLC3A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Cystinuria (Miniature Pinscher Type)	SLC7A9	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Curly Coat Dry Eye Syndrome (Cavalier Type)	FAM83H	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Copper Toxicosis (Bedlington Terrier Type)	COMMD1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Stationary Night Blindness (Beagle Type)	LRIT3_740_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Myasthenic Syndrome (Old Danish Pointer Type)	CHAT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria Type 3 [Bulldog Risk Factor Variant 2&3]	SLC3A and SLC7A9		NORMAL (N/N) FOR BOTH THE HIGH RISK VARIANT 2 [SLC3A1] & LOW RISK VARIANT 3 [SLC7A9]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Congenital Myasthenic Syndrome (Labrador Retriever Type)	COLQ	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Myasthenic Syndrome (Jack Russell Terrier Type)	CHRNE	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Myasthenic Syndrome (Golden Retriever Type)	COLQ_716_GA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Muscular Dystrophy (Italian Greyhound Type)	LAMA2_271_AG	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Methemoglobinemia (Poodle and Pomeranian Type)	CYB5R3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Macrothrombocytopenia	TUBB1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Congenital Hypothyroidism with Goiter (Toy Fox Terrier Type)	TPO	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria Type 3 [Bulldog Risk Factor Variant 1]	SLC3A1_989_AG	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Dandy Walker Like Malformation (Eurasier Breed Type)	VLDLR_144_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Eye Malformation (Golden Retriever)	SIX6	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Dyserythropoietic Anemia and Myopathy Syndrome (DAMS) (English Springer Spaniel Type)	EHBP1L1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Early-Onset Epilepsy, Mitochondrial Dysfunction and Neurodegeneration	PITRM1_272_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Early-Onset Progressive Retinal Atrophy	CCDC66_929_Ins	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Early Onset Adult Deafness (Rhodesian Ridgeback)	EPS8L2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Dystrophic Epidermolysis Bullosa (Golden Retriever Type)	COL7A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Dystrophic Epidermolysis Bullosa (Asian Shepherd Type)	COL7A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Dysphagia (French Bulldog)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Dyserythropoietic Anemia and Polymyopathy (DAMS) (Labrador Retriever)	EHBP1L1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Duchenne Muscular Dystrophy (Pembroke Welsh Corgi Type)	DMD_607_Ins	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Darier Disease and Associated Infundibular Cyst Formation	ATP2A2_020_Ins	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Duchenne Muscular Dystrophy (Border Collie Type)	DMD_465_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Disproportionate Dwarfism (Vizsla Type)	PCYT1A	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Dihydroxyadenine Urolithiasis Type IA	APRT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Diffuse Cystic Renal Dysplasia and Hepatic Fibrosis	INPP5E_064_GA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Delayed Postoperative Haemorrhage (Scottish Deerhound Type)	SERPINF2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Degenerative Myelopathy Early-Onset Risk Modifier (Pembroke Welsh Corgi Type)	SP110_453_CT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Degenerative Myelopathy (Bernese Mountain Dog Type)	SOD1_c52	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Hypothyroidism with Goiter (Tenterfield Terrier Type)	TPO	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Dyshormonogenic Hypothyroidism with Goiter (Shih Tzu)	SLC5A5_672_TC	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ectodermal Dysplasia, X-Linked (Dachshund Type)	EDA_504_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Amelogenesis Imperfecta (Parson Russell Terrier Type), Variant 1	ENAM_719_CT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Canine Leukocyte Adhesion Deficiency Type I (Irish Setter Type)	ITGB2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Brain Hypomyelination (Weimaraner Type)	NKX2-8	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Bilateral Deafness MYO7A Gene (Doberman Type)	MYO7A	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Beta Mannisidosis (German Shepherd Type)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Bernard-Soulier Syndrome (Cocker Spaniel Type)	GP9 chromosome 20	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Autosomal Hereditary Recessive Nephropathy (Familial Nephropathy)	COL4A4	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ataxia (Norwegian Buhund Type)	KCNIP4_674_TC	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Amelogenesis Imperfecta (Italian Greyhound Type)	ENAM	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Canine Multifocal Retinopathy 3	BEST1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Amelogenesis Imperfecta (Akita Type)	ACPT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Alport Syndrome/ Hereditary Nephritis (Samoyed Type)	COL4A5	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Airway Distress Syndrome (ADAMTS3) - Risk Marker	ADAMTS3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Afibrinogenemia, Variant 1	FGA_736_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Adult Paroxysmal Dyskinesia	PIGN_240_CT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Acute Respiratory Distress Syndrome (Dalmatian Type)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Acral Mutilation Syndrome (SPANIEL & POINTER TYPE)	GDNF	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Canine Leukocyte Adhesion Deficiency Type III (German Shepherd Type)	FERMT3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Canine Multifocal Retinopathy CMR1 (Coton de Tulear Type)	BEST1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Deafness (Australian Stumply Tail Cattle Dog Type) (LINKAGE CANDIDATE GENE)	KLF7_685_TC	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Chondrodysplasia ITGA10 (Elkhound Type)	ITGA10	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cone-Rod Dystrophy I - PRA (crd -4/cord I)	RPGRIP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cone Degeneration (German Shepherd Dog Type)	CNGA3_861_GA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Complement 3 Deficiency	C3_746_Del	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Cobalamin Malabsorption: Cubilin Deficiency (Border Collie Type)	CUBN	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cobalamin Malabsorption (Beagle Type)	CUBN	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cleft Lip Palate (Nova Scotia Duck Tolling Retriever Type)	ADAMTS20	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Chronic Respiratory Tract Infection		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Charcot Marie Tooth Disease (Type 4B2)	MTMR13_425_CA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Canine Multifocal Retinopathy CMR3 (Lapphund Type)	BEST1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Cerebellar Cortical Degeneration (Hungarian Vizsla Type)	SNX14	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cerebellar Ataxia (Finnish Hound Type)	SEL1L	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Centronuclear Myopathy /Inherited Myopathy (Great Dane Type)	BIN1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Centronuclear Myopathy (Labrador Retriever Type)	PTPLA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Catalase Deficiency (Beagle Type)	CAT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cardiomyopathy and Juvenile Mortality (Belgian Shepherd)	YARS2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Canine Multiple System Degeneration (Kerry Blue Terrier Type)	SERAC1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Canine Multiple System Degeneration (Chinese Crested)	SERAC1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ectodermal Dysplasia (Chesapeake Bay Retriever Type)	PKP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ectodermal Dysplasia, X-Linked (Shepherd Type)	EDA_433_GA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ligneous Membranitis	PLG	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hereditary Nasal Parakeratosis (Greyhound Type)	HNPK	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Ichthyosis (Golden Retriever Type 2)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ichthyosis (German Shepherd Type)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ichthyosis (American Bulldog)	NIPAL4	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hypophosphatasia	ALPL	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hereditary Nephropathy (English Springer Spaniel)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hereditary Necrotising Myelopathy (Kooiker Type)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Hereditary Nasal Parakeratosis/Dry Nose (Labrador Retriever Type)	SUV39H2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hereditary Methemoglobinemia, Variant 3	CYB5R3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ichthyosis (Jack Russell Terrier Type)	TGM1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hereditary Methemoglobinemia, Variant 1	CYB5R3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hereditary Footpad Hyperkeratosis (Dogue de Bordeaux Type)	KRT16	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hereditary Footpad Hyperkeratosis	FAM83G	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Hereditary Deafness PTPRQ Gene (Dobermann Type)	PTPRQ	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hereditary Ataxia (Autophagy)	RAB24	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hemophilia A (German Shepherd Dog, Type 1)	F8	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Haemophilia B / Factor IX (Cairn Terrier Type)	FIX	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ichthyosis (Great Dane)	SLC27A4	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ichthyosis (Norfolk Terrier)	KRT10	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Haemophilia B (Lhasa Apso Type)	F9	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	L2- Hydroxyglutaric Aciduria	L2HGA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Leukoencephalomyelopathy (LEMP)	NAPEPLD	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Lethal Acrodermatitis MKLN1 (Bull Terrier Type)	MKLN1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Leigh-Like Subacute Necrotising Encephalopathy	SLC19A3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Laryngeal Paralysis (St Bernard/Leonberger Type)	CNTNAP1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Laryngeal Paralysis (Bull Terrier Type)	RAPGEF6	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Achromatopsia (Labrador Type)	CNGA3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	L2-Hydroxyglutaric Aciduria (Staffordshire Bull Terrier Type) - Variant 2	L2HGDH_472_GA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Juvenile Paroxysmal Dyskinesia	PIGN	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ichthyosis A (Golden Retriever)	PNPLA1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Juvenile Epilepsy (Benign Familial) - Lagotto Romagnolo Type	LGI family, member 2 on chromosome 3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Juvenile Dermatomyositis [PAN2 RISK ALLELE]	PAN2		aa - NO PAN2 VARIANT DETECTED [THIS IS ONE OF THE 3 LOCI ASSOCIATED WITH DERMATOMYOSITIS]
	Juvenile Cataracts (Wirehaired Pointing Griffon Type)	FYCO1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Junctional Epidermolysis Bullosa	LAMB3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Intestinal Cobalamin Malabsorption (Komondor Type)	CUBN	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Inflammatory Myopathy	SLC35A12	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Increased Susceptibility to M. Avium Infection	CARD9	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Haemophilia B (Rhodesian Ridgeback Type)	F9_868_GA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Haemophilia A/Factor VIII Deficiency (Boxer Type)	F8	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ehlers-Danlos Syndrome (Dobermann Type)	ADAMTS2_690_CT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Exercise Induced Metabolic Myopathy	ACADVL	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Fucosidosis (English Springer Spaniel Type)	FUCA1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Footpad Hyperkeratosis (Rottweiler)	DSG1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Fatal Neonatal Interstitial Lung Disease (LAMP)	LAMP3_728_CT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Fanconi Syndrome	FAN1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Factor XI Deficiency	F11	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Factor IX Deficiency	F9	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Exfoliative Cutaneous Lupus Erythematosus (ECLE)	UNC93B1_804_CA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Episodic Falling Syndrome (Cavalier Type)	BCAN	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Gangliosidosis (Portuguese Water Dog Type)	GLB1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Encephalopathy (Alaskan Husky Type)	LOC486151	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Enamel Hypoplasia - Amelogenesis Imperfecta (Samoyed Type)	SLC24A4	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Elliptocytosis B-spectrin (Labrador Retriever/Poodle Type)	SPTB	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ehlers-Danlos Syndrome (Poodle Type), Variant 2	TNXB	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ehlers-Danlos Syndrome (Poodle Type), Variant 1	TNXB	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Ehlers-Danlos Syndrome (Labrador Type)	COL5A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Ehlers-Danlos Syndrome (Labrador Retriever Type), Variant 2	COL5A1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Gall Bladder Mucocele Formation (Shetland Sheepdog Type)	ABCB4	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Gangliosidosis GM1 GLB1 (Shiba Inu Type)	GLB1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Haemophilia A / Factor VIII (German Shepherd Type)	FVIII (F8)	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Glomerulopathy (PLN) KIRREL2	KIRREL2	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Haemophilia A (Rhodesian Ridgeback Type)	F8_876_Ins	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Grey Collie Syndrome (Cyclic Hematopoiesis) AP3	AP3B1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Goniodysgenesis and Glaucoma (Border Collie)	OLFML3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	GM1 Gangliosidosis (Alaskan Husky Type)	GLB1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Glycogen Storage Disease IIIA (Curly Coat Retriever Type)	GSD	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Glycogen Storage Disease IA (Maltese Type)	G6PC	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Glomerulopathy (PLN) NPHS1	NPHS1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Globoid Cell Leukodystrophy/Krabbe's Disease	GALC	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Gangliosidosis GM2 (Japanese Chin Type)	HEXA	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Globoid Cell Leukodystrophy (Irish Setter Type)	GALC_611_Ins	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Glanzmann's Thrombasthenia (Great Pyrenees Type)	ITGA2B	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Generalised PRA 2 (Golden Retriever Type)	TTC8	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Generalised PRA 1 (Golden Retriever Type)	SLC4A3	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Generalised Myoclonic Epilepsy (Rhodesian Ridgeback Type)	DIRAS1	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Gastrointestinal Polyposis	APC_130_AATT	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Gangliosidosis GM2 HEXB (Shiba Inu Type)	HEXB	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Gangliosidosis GM2 (Poodle Type)	HEXB	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]
	Xanthine Urolithiasis (Mixed Breed)		WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Canine Genetic Health Certificate™

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Disease	Gene	Genotype	Interpretation
	Griscelli Syndrome Type 1	MYO5A	WT/WT	NORMAL (N/N) - [NO VARIANT DETECTED]

Coat Color and Trait Certificate

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
✓	Brown Stop Codon = Bs		b^s/b^s - BROWN/CHOCOLATE, LIVER OR RED [STOP CODON]
✓	D (Dilute) Locus		D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL
✓	Brown TYRP1 [Australian Shepherd Type] = Ba		B^a/B^a - NO COPY OF THE BROWN/RED c.555T>G VARIANT [AUSTRALIAN SHEPHERD TYPE] DETECTED
✓	Brown Insertion = Bc		B^c/B^c - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [INSERTION]
✓	K Locus (Dominant Black)		k^y/k^y - RECESSIVE NON-BLACK [COLOUR PATTERN DETERMINED BY A LOCUS]
✓	Brown Deletion = Bd		B^d/B^d - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION]
✓	I Pheomelanin Locus Colour Intensity		I/I - NO COPY OF MFSD12 INTENSITY/CREAM ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)

Coat Color and Trait Certificate

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
✓	A Locus (Agouti)		a^t/a^t - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]
✓	EM (MC1R) Locus - Melanistic Mask		E^m/E^n - ONE COPY OF MASK ALLELE DETERMINED BY A SERIES
✓	Pied (BOTH SINE and REPEAT VARIANTS)		S/S - NO PIEBALD, WHITE SPOTTING, FLASH OR PARTI COAT COLOUR
✓	E Locus (Cattle Dog Cream Variant) e2		E^2/E^2 - DOMINANT BLACK DOES NOT CARRY "AUSTRALIAN CATTLE DOG" TYPE CREAM
✓	E Locus - (Cream/Red/Yellow)		E/E - DOMINANT BLACK DOES NOT CARRY YELLOW/RED/WHITE
✓	Ticking & Roan (TR)		r/r - NO ROAN or TICKING IN COAT

Coat Color and Trait Certificate

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
✓	M Locus (Merle/Dapple)		m [171bp] / m [171bp] - NON MERLE SOLID COAT (NO CHANGE TO COAT or EYE COLOUR)
✓	Long Hair Gene - L1 (Canine C95F)		POSITIVE - SHOWING THE PHENOTYPE
✓	Shedding (MC5R)		shd/shd [HIGH SHEDDING] - TWO COPIES OF THE shd (MC5R) VARIANT DETECTED REFER TO R151W (IC) FOR LEVEL OF SHEDDING
✓	Curly Coat/Hair Variant 1		NEGATIVE FOR THE R151W (CU/CU) VARIANT - NOT SHOWING THE CURLY COAT PHENOTYPE
✓	Natural Bob Tail (Short Tail Phenotype)		NEGATIVE - NOT SHOWING THE PHENOTYPE
✓	Brown TYRP1 [Lancashire Heeler Type] = Bl		B^L/B^L - DOES NOT CARRY BROWN/LIVER [TYRP1]

Coat Color and Trait Certificate

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
	Black and Tan/Saddle Coat Colour		POSITIVE TWO COPIES of TAN SADDLE VARIANT - MAY EXPRESS THE PHENOTYPE [See E and K Locus]
	Harlequin (H) Pattern (Great Dane Type)		H/H - DOES NOT CARRY AND WILL NOT EXPRESS ANY HARLEQUIN PATTERN
	Oculocutaneous Albinism (Small Breed Type)		NEGATIVE - NOT SHOWING THE PHENOTYPE
	Long Hair Gene - L4 (Canine DUP GG)		NEGATIVE - NOT SHOWING THE PHENOTYPE
	Coat Composition CFA28 Gene (Double/Single Coat)		udc/udc - TWO COPIES OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED
	Curly Coat/Hair Variant 2		NEGATIVE FOR THE KRT71 (p.Ser422ArgfsTer) VARIANT - NOT SHOWING THE CURLY COAT (C2) PHENOTYPE

Coat Color and Trait Certificate

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
	Furnishings (RSPO2)		IC/IC - NEGATIVE FOR FURNISHINGS - WILL HAVE NO FURNISHINGS
	Body Size IGSF1 "Bulky Gene"		NO COPY INSULIN LIKE GROWTH FACTOR (IGF1R) - ASSOCIATED WITH A REDUCTION of BODY (BULKY) SIZE
	Dilute D2 Variant (Chow Chow Type)		D^2/D^2 - NO COPY OF d2 ALLELE (DILUTE) - PIGMENT IS NORMAL
	B Locus (Brown) - Siberian Husky Type		B^h/B^h - NO COPY OF THE BROWN/RED [SIBERIAN HUSKY TYPE] VARIANT DETECTED
	Cocoa/Brown HPS3 [French Bulldog Type] = Co		B^{co}/B^{co}- NO COPY OF THE HPS3 COCOA VARIANT
	L Locus (Long Hair/Fluffy) - Lh3 (Eurasier Breed Type)		L^3/L^3 - NO COPY OF THE L3 (EURASIER BREED TYPE) LONG HAIR PHENOTYPE DETECTED

Coat Color and Trait Certificate

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
	E Locus (Ancient Red) - eA (Spitz and Scent Hound Type)		E^a/E^a - NO COPIES OF ANCIENT RED DETECTED
	Eh Locus (Sable, Cocker Spaniel Type)		E^h/E^h - NO COPIES OF e^h (SABLE COAT COLOUR) DETECTED
	Hairlessness (American Hairless Terrier Type)		NEGATIVE - NOT SHOWING THE PHENOTYPE
	Hairlessness (Scottish Deerhound Type)		NEGATIVE - NOT SHOWING THE PHENOTYPE
	Himalayan Colour Pattern		H/H - DOES NOT CARRY AND WILL NOT EXPRESS ANY HIMALAYAN COLOUR PATTERN
	L Locus (Long Hair/Fluffy) - Lh2 (Akita, Eurasier, Samoyed, Siberian Husky Type)		L^2/L^2 - NO COPY OF THE L2 (ARCTIC BREED TYPE) LONG HAIR PHENOTYPE DETECTED

Coat Color and Trait Certificate

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
	Pheomelanin Intensity CFA18 (Poodle/Coonhound Type)		I/I - NO COPY OF CFA18 INTENSITY ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)
	Behaviour Propensity (Belgian Shepherd Type), Variant 2		A10/A10 - GENOTYPE NOT ASSOCIATED WITH ADVERSE BEHAVIOUR OF BELGIAN MALINOIS
	Pheomelanin Colour Intensity CFA2 (Various Breeds)		I/I - NO COPY OF CFA2 INTENSITY ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)
	Pheomelanin Colour Intensity CFA21 (Various Breeds)		I/I - NO COPY OF CFA21 INTENSITY ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)
	Pheomelanin Intensity CFA15 (Retriever and Poodle Type)		I/I - NO COPY OF CFA15 INTENSITY ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)
	Polydactyl/Dewclaws		NEGATIVE - NOT SHOWING THE PHENOTYPE

Coat Color and Trait Certificate

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
	Polydactyly (Great Pyrenees Type)		NEGATIVE - NOT SHOWING THE PHENOTYPE
	E Locus (Artic Breeds Pale/Yellow/White Variant) e3		E^3/E^3 - DOMINANT BLACK DOES NOT CARRY "HUSKY TYPE" PALE YELLOW/WHITE
	EG Locus (Grizzle)		Eg/Eg - NO GRIZZLE PHENOTYPE
	Oculocutaneous Albinism (Bullmastiff)		NEGATIVE - NOT SHOWING THE PHENOTYPE

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
✓	Sex Determination - ZFXY		DOG IS FEMALE
	Broad Ear		G/G – HOMOZYGOUS DERIVED ALLELE (LIKELY NOT ASSOCIATED WITH BROAD EARS)

Coat Color and Trait Certificate

Call Name:	Cubby	**Barcode:**	25A160021
Registered Name:		**Registration:**	
Breed:	Australian Shepherd	**Certificate Date:**	3rd Jul 2025
Sex:	Female	**Microchip Number:**	-
DOB:	31st Mar 2022		

This canine's DNA showed the following genotype(s):

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
	D Locus (Dilute) - d3		D^3/D^3 - NO COPY OF d3 ALLELE (DILUTE) - PIGMENT IS NORMAL
	Ear Fold (Floppy/Erect)		G/G - LIKELY PRICKED EARS (ERECT)