

Australian Shepherd



[Labgenvet](#)
[\(Donner, 2018\)](#)
[\(Donner, 2023\)](#)

Disease	Gene	Reference	# tests	M/N	
MDR1 (Multidrug Resistance 1) Medication Sensitivity	ABCB1	Labgenvet, 2021	188	31.6%	DOMINANT
		Donner, 2018	238	37.8%	
		Donner, 2023	2296	36.8%	
Dilated Cardiomyopathy risk factor (PDK4-related)	PDK4	Labgenvet, 2021	32	28.1%	DOMINANT
		Donner, 2023	2296	20.4%	
Hereditary cataracts (Australian Shepherd)	HSF4	Labgenvet, 2021	91	27.5%	DOMINANT
		Donner, 2018	240	14.6%	
Degenerative Myelopathy (DM)	SOD1	Labgenvet, 2021	41	14.6%	
		Donner, 2018	240	11.7%	
		Donner, 2023	2296	16.3%	
Collie Eye Anomaly (CEA)	NHEJ1	Labgenvet, 2021	81	37.0%	
		Donner, 2018	240	15.4%	
		Donner, 2023	2296	9.5%	
Hyperuricosuria (HUU)	SLC2A9	Donner, 2018	240	4.6%	
		Donner, 2023	2296	6.0%	
Chondrodystrophy, Intervertebral Disc Disease Risk (CDDY)	FGF4	Donner, 2023	2290	4.5%	DOMINANT
Cone-Rod Dystrophy (cord1-PRA/crd4)	RPGRIP1	Donner, 2018	240	5.8%	
		Donner, 2023	2291	3.1%	
Dilated Cardiomyopathy risk factor (TTN-related)	TTN	Donner, 2023	2296	1.2%	DOMINANT
Von Willebrand's Disease, Type 1 (vWD 1)	VWF	Donner, 2018	150	5.3%	
		Donner, 2023	2296	1.2%	
Progressive Rod-Cone Degeneration (prcd-PRA)	PRCD	Donner, 2018	142	2.0%	
		Donner, 2023	2293	0.74%	
Canine Multifocal Retinopathy 1 (Mastiff; CMR1)	BEST1	Donner, 2023	2296	0.74%	
Neuronal Ceroid Lipofuscinosis 8 (Australian Shepherd; NCL8)	CLN8	Donner, 2023	2296	0.35%	
Cystinuria Type I-B (SLC7A9 p.A217T)	SLC7A9	Donner, 2023	2295	0.17%	
Cystinuria Type I-A (SLC3A1 p.I192V)	SLC3A1	Donner, 2023	2296	0.17%	
Dilated Cardiomyopathy (DCM)	RBM20	Donner, 2023	2296	0.13%	
Factor VII Deficiency	F7	Donner, 2023	2296	0.13%	
Intestinal Cobalamin Malabsorption (Border Collie; CUBN)	CUBN	Donner, 2018	152	0.7%	
		Donner, 2023	2296	0.13%	
Craniomandibular Osteopathy (Terriers)	SLC37A2	Donner, 2018	240	0.4%	
		Donner, 2023	2296	0.04%	DOMINANT
Early-Onset Progressive Polyneuropathy (Greyhound)	NDRG1	Donner, 2023	2296	0.04%	