

American Staffordshire Terrier



[Labgenvet](#)

[Donner, 2018](#)

[Donner, 2023](#)

Disease	Gene	Reference	# tests	M/N	
Cone Rod Dystrophy (Cord1-PRA/crd4)	RPGRIP1	Donner, 2018	257	25.7%	
		Donner, 2023	42684	29.2%	
Hyperuricosuria	SLC2A9	Donner, 2018	258	14.3%	
		Donner, 2023	42793	11.8%	
Neuronal Ceroid Lipofuscinosis 4A (NCL4)	ARSG	Donner, 2018	257	9.7%	
		Donner, 2023	42746	6.6%	
Degenerative myelopathy	SOD1	Donner, 2018	258	8.5%	
		Donner, 2023	42790	11.9%	
Cystinuria Type I-A (SLC3A1 p.I192V)	SLC3A1	Donner, 2023	42789	7.0%	
Cystinuria Type I-A (SLC3A1 p.S698G)	SLC3A1	Donner, 2023	42793	6.8%	
Cystinuria Type I-B (SLC7A9 p.A217T)	SLC3A1	Donner, 2023	42776	5.6%	
Chondrodystrophy, Intervertebral Disc Disease Risk (CDDY)	FGF4	Donner, 2023	42562	3.3%	DOMINANT
Cone Rod Dystrophy 1 (CRD1)	PDE6B	Donner, 2018	242	2.1%	
		Donner, 2023	42791	2.0%	
Canine Multifocal Retinopathy 1 (CMR1)	BEST1	Donner, 2023	42793	1.15%	
Cone Rod Dystrophy 2 (CRD2)	IQCB1	Donner, 2018	242	1.3%	
		Donner, 2023	42792	0.63%	
Protein Losing Nephropathy (PLN)	NPHS1	Donner, 2023	42793	0.64%	
Progressive Rod-Cone Degeneration (prcd-PRA)	PRCD	Donner, 2023	42707	0.52%	
Dilated Cardiomyopathy risk factor (PDK4-related)	PDK4	Donner, 2023	42793	0.45%	DOMINANT
Collie Eye Anomaly (CEA)	NHEJ1	Donner, 2023	42793	0.41%	
Primary Lens Luxation (PLL)	ADAMTS17	Donner, 2018	258	0.4%	
		Donner, 2023	42793	0.08%	
Cranio-mandibular Osteopathy (CMO)	SLC37A2	Donner, 2018	257	0.4%	DOMINANT
		Donner, 2023	42793	0.31%	
Ichthyosis (American Bulldog; NIPAL4-related)	NIPAL4	Donner, 2023	42793	0.4%	
Congenital Myasthenic Syndrome (CHRNE-related)	CHRNE	Donner, 2023	595	0.34%	
Hypocalasias	CAT	Donner, 2023	42792	0.33%	
Von Willebrand's Disease, Type 1 (vWD 1)	VWF	Donner, 2023	42793	0.32%	
Dilated Cardiomyopathy risk factor (TTN-related)	TTN	Donner, 2023	42793	0.28%	DOMINANT
MDR1 (Multidrug Resistance 1) Medication Sensitivity	ABCB1	Donner, 2023	42789	0.22%	DOMINANT
Chondrodysplasia, Disproportionate Short-limbed	ITGA10	Donner, 2023	42793	0.16%	
Shar-Pei Autoinflammatory Disease (SPAID)	MTBP	Donner, 2023	42793	0.11%	
Exercise-Induced Collapse (EIC)	DMN1	Donner, 2023	42787	0.1%	
Factor VII Deficiency	F7	Donner, 2023	42792	0.1%	
Focal Non-Epidermolytic Palmoplantar Keratoderma	KRT16	Donner, 2023	42792	0.09%	
Ichthyosis (Golden Retriever)	PNPLA1	Donner, 2023	42793	0.09%	
Stargardt Disease (Labrador Retriever)	ABCA4	Donner, 2023	42793	0.09%	
Amelogenesis Imperfecta	ENAM	Donner, 2023	42786	0.04%	
Hereditary Footpad Hyperkeratosis	FAM83G	Donner, 2023	42793	0.04%	

Canine Scott Syndrome (CSS)	ANO6	Donner, 2023	42793	0.035%
Nonsyndromic hearing loss (Rottweiler)	LOXHD1	Donner, 2023	42793	0.035%
Primary Open Angle Glaucoma, Lens Luxation (Shar-Pei)	ADAMTS17	Donner, 2023	42784	0.035%
Early-Onset Progressive Polyneuropathy (Greyhound)	NDRG1	Donner, 2023	42782	0.026%
Lethal Acrodermatitis (Discovered in the Bull Terrier; LAD)	MKLN1	Donner, 2023	42793	0.02%
Mucopolysaccharidosis, Type VII (MPS VII)	GUSB	Donner, 2023	42793	0.02%
Musladin-Lueke syndrome (MLS)	ADAMTSL2	Donner, 2023	42799	0.02%
Neuroaxonal Dystrophy (Rottweiler; VPS11-related)	VPS11	Donner, 2023	42793	0.02%
Neuronal Ceroid Lipofuscinosis 12 (Australian Cattle Dog)	ATP13A2	Donner, 2023	42792	0.02%
Persistent Müllerian Duct Syndrome (PMDS)	AMHR2	Donner, 2023	42793	0.02%
Polyneuropathy, Ocular Abnormalities, Neuronal Vacuolation	RAB3GAP1	Donner, 2023	42312	0.02%
Progressive Retinal Atrophy (Golden Retriever; GR_PRA2)	TTC8	Donner, 2023	42793	0.02%
Cystinuria Type II-A (Australian Cattle Dog)	SLC3A1	Donner, 2023	42792	0.01%
Deafness and Vestibular Dysfunction	PTPRQ	Donner, 2023	42779	0.01%
Skeletal Dysplasia 2 (SD2)	COL11A2	Donner, 2023	42793	0.01%

DOMINANT

Mutation reported at very low frequency (Donner 2023):

Acral Mutilation Syndrome (AMS)	GDNF	Donner, 2023	42793	>0.01%
Acute Respiratory Distress Syndrome	ANLN	Donner, 2023	42787	>0.01%
Amelogenesis Imperfecta (Parson Russell Terrier)	ENAM	Donner, 2023	42793	>0.01%
Bleeding disorder (P2RY12-related)	P2RY12	Donner, 2023	42791	>0.01%
Centronuclear Myopathy (HACD1-related)	HACD1	Donner, 2023	42784	>0.01%
Complement 3 (C3) Deficiency	C3	Donner, 2023	42793	>0.01%
Cone Degeneration (Alaskan Malamute)	CNGB3	Donner, 2023	42793	>0.01%
Congenital Hypothyroidism (Toy Fox, Rat Terrier)	TPO	Donner, 2023	42785	>0.01%
Congenital Myasthenic Syndrome (Jack Russell; CHRNE-related)	CHRNE	Donner, 2023	42786	>0.01%
Deafness and Vestibular Dysfunction (PTPRQ-related)	PTPRQ	Donner, 2023	42793	>0.01%
Dental Hypomineralisation	FAM20C	Donner, 2023	42749	>0.01%
Dilated Cardiomyopathy (Schnauzer; DCM)	RBM20	Donner, 2023	42793	>0.01%
Early-Onset Progressive Polyneuropathy (Alaskan Malamute)	NDRG1	Donner, 2023	42793	>0.01%
Fanconi Syndrome	FAN1	Donner, 2023	42777	>0.01%
Globoid Cell Leukodystrophy (Terriers)	GALC	Donner, 2023	42793	>0.01%
Glycogen storage disease VII, Phosphofructokinase Deficiency	PFKM	Donner, 2023	42793	>0.01%
Hereditary Nasal Parakeratosis (Labrador Retriever)	SUV39H2	Donner, 2023	42792	>0.01%
Intestinal Cobalamin Malabsorption (CUBN-related)	CUBN	Donner, 2023	42793	>0.01%
Lung Developmental Disease (Airedale Terrier)	LAMP3	Donner, 2023	42793	>0.01%
Macrothrombocytopenia (Norfolk, Cairn Terrier)	TUBB1	Donner, 2023	42793	>0.01%
Muscular Dystrophy, Ullrich Type (Landseer)	COL6A1	Donner, 2023	42755	>0.01%
Narcolepsy (Labrador Retriever)	HCRTR2	Donner, 2023	42793	>0.01%
Osteochondrodysplasia (Miniature Poodle)	SLC13A1	Donner, 2023	42793	>0.01%
Polycystic Kidney Disease (Bull Terrier)	PKD1	Donner, 2023	42789	>0.01%
Progressive Retinal Atrophy (Giant Schnauzer; NECAP1-related)	NECAP1	Donner, 2023	42793	>0.01%
Progressive Retinal Atrophy (Golden Retriever; GR_PRA1)	SLC4A3	Donner, 2023	42789	>0.01%
Progressive Retinal Atrophy (Lapponian Herder; IFT122-PRA)	IFT122	Donner, 2023	42793	>0.01%
Progressive Retinal Atrophy (Shetland Sheepdog; CNGA1-PRA)	CNGA1	Donner, 2023	40681	>0.01%
Rod-Cone Dysplasia 1a (Sloughi; rcd1a)	PDE6B	Donner, 2023	42783	>0.01%