

Collie



[Labgenvet](#)

[Donner, 2018](#)

[Donner, 2023](#)

Disease	Gene	Reference	# tests	M/N	
MDR1 (Multidrug Resistance 1) Medication Sensitivity	ABCB1	Labgenvet, 2021	23	39.1%	DOMINANT
		Donner, 2018	116	44.0%	
		Donner, 2023	1207	49.2%	
Collie Eye Anomaly (CEA)	NHEJ1	Labgenvet, 2021	16	50.0%	
		Donner, 2018	118	17.0%	
		Donner, 2023	1207	40.1%	
Degenerative Myelopathy (DM)	SOD1	Labgenvet, 2021	11	9.1%	
		Donner, 2018	118	29.7%	
		Donner, 2023	1207	22.1%	
Canine cyclic neutropenia (Grey Collie Syndrome)	AP3B1	Donner, 2018	118	2.5%	
Progressive Retinal Atrophy, Bardet-Biedl syndrome 2 (Shetland)	BBS2	Donner, 2023	1207	0.17%	
Exercise-Induced Collapse (EIC)	DNM1	Donner, 2023	1207	0.17%	