

Meadow Registration: N/A Breed: Border Collie

DNA Test Report

Sample ID: DPQYKSL Test Date: 2/18/2021 Optimal Selection - Canine

Health Conditions Known in This Breed

Genetic Condition	Gene	Risk Variant	Copies	Result
Early Adult Onset Deafness For Border Collies only (Linkage test)	Pending	Insertion	1	Notable
Collie Eye Anomaly (CEA)	NHEJ1	Deletion	0	Clear
Dental Hypomineralization	FAM20C	C>T	0	Clear
Intestinal Cobalamin Malabsorption (Discovered in the Border Collie)	CUBN	Deletion	0	Clear
MDR1 Medication Sensitivity	MDR1/ABCB1	Deletion	0	Clear
Sensory Neuropathy	FAM134B	Insertion	0	Clear
Trapped Neutrophil Syndrome	VPS13B	Deletion	0	Clear

Other Conditions Tested

		•	Result
APRT	G>A	0	Clear
GDNF	C>T	0	Clear
ANLN	C>T	0	Clear
C19A3	G>A	0	Clear
GFAP	G>A	0	Clear
ENAM	Deletion	0	Clear
GRM1	Insertion	0	Clear
LGI2	A>T	0	Clear
RMT3	Insertion	0	Clear
BEST1	C>T	0	Clear
BEST1	G>A	0	Clear
BEST1	Deletion	0	Clear
ANO6	G>A	0	Clear
E	GDNF ANLN C19A3 GFAP ENAM GRM1 LG12 RMT3 BEST1 BEST1 BEST1	GDNF C>T ANLN C>T C19A3 G>A GFAP G>A ENAM Deletion GRM1 Insertion LGI2 A>T RMT3 Insertion BEST1 C>T BEST1 G>A BEST1 Deletion	GDNF C>T 0 ANLN C>T 0 C19A3 G>A 0 GFAP G>A 0 ENAM Deletion 0 GRM1 Insertion 0 LG12 A>T 0 RMT3 Insertion 0 BEST1 C>T 0 BEST1 G>A 0 BEST1 Deletion 0