

[Summary](#)[Diversity](#)[Health](#)

Health Highlights

We detected 1 notable genetic variant in KASH's DNA.

211

1

0

Clear

Notable

At Risk

Learn more about the genetic tests we conducted and what they mean for your pet's health.

[View Health →](#)

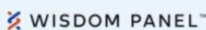
Coat Color

Genetic Trait	Gene	Variant	Copies	Result
Fawn	ASIP	a ^y	0	No effect
Recessive Black	ASIP	a	0	No effect
Tan Points	ASIP	a ^t	2	Tan points possible
Dominant Black	CBD103	K ^B	1	Black or brindle possible
Mask	MC1R	E ^m	1	Dark Muzzle possible
Recessive Red (Variant 1)	MC1R	e ¹	0	No effect
Recessive Red (Variant 2)	MC1R	e ²	0	No effect
Recessive Red (Variant 3)	MC1R	e ³	0	No effect
Widow's Peak (Discovered in Ancient dogs)	MC1R	e ^A	0	No effect
Widow's Peak (Discovered in the Afghan Hound and Saluki)	MC1R	E ^G	0	No effect
Red Intensity	MFSD12	i	0	White to yellow coat shades unlikely
Dilution (Variant 1) Linkage test	MLPH	d ¹	2	Dilution likely
Dilution (Variant 2)	MLPH	d ²	0	No effect
Dilution (Variant 3)	MLPH	d ³	0	No effect
Chocolate (Variant 1)	TYRP1	b ^c	0	No effect
Chocolate (Variant 2)	TYRP1	b ^s	2	Chocolate
Chocolate (Variant 3)	TYRP1	b ^d	0	No effect
Chocolate (Variant 4)	TYRP1	b ^{std}	0	No effect

Coat Patterns

Genetic Trait	Gene	Variant	Copies	Result
Piebald	MITF	s ^p	0	No effect

KASH
 Registration: 00/379262
 Breed: Border Collie



DNA Test Report

Sample ID: DFDGDCW
 Test Date: 6/12/2021
 Optimal Selection - Canine

Coat Patterns (continued)

Genetic Trait	Gene	Variant	Copies	Result
Merle	PMEL	M	0	No effect
Harlequin	PSMB7	H	0	No effect
Saddle Tan	RALY	-	0	No effect

Coat Length and Curl

Genetic Trait	Gene	Variant	Copies	Result
Long Hair (Variant 1)	FGF5	lh ¹	2	Long coat
Long Hair (Variant 2)	FGF5	lh ²	0	No effect
Long Hair (Variant 3)	FGF5	lh ³	0	No effect
Long Hair (Variant 4)	FGF5	lh ⁴	0	No effect
Long Hair (Variant 5)	FGF5	lh ⁵	0	No effect
Curly Coat	KRT71	C	0	No effect

Hairlessness

Genetic Trait	Gene	Variant	Copies	Result
Hairlessness (Discovered in the Chinese Crested Dog)	FOXI3	Hr ^{cc}	0	No effect
Hairlessness (Discovered in the American Hairless Terrier)	SCK2	hr ^{ahf}	0	No effect

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WISDOM PANEL™

DNA Test Report

Sample ID: DFDGDCW
 Test Date: 6/12/2021
 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

Genetic Condition	Gene	Risk Variant	Copies	Result
2,8-dihydroxyadenine (DHA) Urolithiasis	APRT	G>A	0	Clear
Acral Mutilation Syndrome	GDNF	C>T	0	Clear
Acute Respiratory Distress Syndrome	ANLN	C>T	0	Clear
Alaskan Husky Encephalopathy	SLC19A3	G>A	0	Clear
Alexander Disease	GFAP	G>A	0	Clear
Amelogenesis Imperfecta	ENAM	Deletion	0	Clear
Bandera's Neonatal Ataxia	GRM1	Insertion	0	Clear
Benign Familial Juvenile Epilepsy	LGI2	A>T	0	Clear
Canine Leukocyte Adhesion Deficiency (CLAD), type III	FERMT3	Insertion	0	Clear
Canine Multifocal Retinopathy 1	BEST1	C>T	0	Clear
Canine Multifocal Retinopathy 2	BEST1	G>A	0	Clear
Canine Multifocal Retinopathy 3	BEST1	Deletion	0	Clear
Canine Scott Syndrome	ANO6	G>A	0	Clear

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Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Centronuclear Myopathy (Discovered in the Great Dane)	BIN1	A>G	0	Clear
Centronuclear Myopathy (Discovered in the Labrador Retriever)	PTPLA	Insertion	0	Clear
Cerebellar Ataxia	RAB24	A>C	0	Clear
Cerebellar Cortical Degeneration	SNX14	C>T	0	Clear
Cerebellar Hypoplasia	VLDLR	Deletion	0	Clear
Cerebral Dysfunction	SLC6A3	G>A	0	Clear
Chondrodysplasia	ITGA10	C>T	0	Clear
Cleft Lip & Palate with Syndactyly		Deletion	0	Clear