

DNA Test Report

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 ¹	1	Tan points possible
Dominant Black	CBD103	K ^B	1	Black or brindle possible
Sable (Discovered in the Cocker Spaniel)	Confidential	—	0	No effect
Mask	MC1R	E ^m	2	Dark Muzzle possible
Recessive Red (e1)	MC1R	e ¹	0	No effect
Recessive Red (e2)	MC1R	e ²	0	No effect
Recessive Red (e3)	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 ^D	0	No effect

Color Modification

Genetic Trait	Gene	Variant	Copies	Result
Cocoa (Discovered in the French Bulldog)	HPS3	co	0	No effect
Red Intensity	MFSD12	i	0	No effect
Dilution (d1) Linkage test	MLPH	d ¹	1	No effect
Dilution (d2)	MLPH	d ²	0	No effect
Dilution (d3)	MLPH	d ³	0	No effect
Chocolate (basd)	TYRP1	b ^{asd}	0	No effect
Chocolate (bc)	TYRP1	b ^c	0	No effect
Chocolate (bd)	TYRP1	b ^d	0	No effect

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Color Modification (continued)

Genetic Trait	Gene	Variant	Copies	Result
Chocolate (be)	TYRP1	b ^e	0	No effect
Chocolate (bh)	TYRP1	b ^h	0	No effect
Chocolate (bs)	TYRP1	b ^s	1	Black features likely, chocolate possible

Coat Patterns

Genetic Trait	Gene	Variant	Copies	Result
Piebald	MITF	s ^p	0	No effect
Merle	PMEL	M	0	No effect
Harlequin	PSMB7	H	0	No effect
Saddle Tan	RALY	-	2	Saddle possible
Roan (Linkage test)	USH2A	T ^r	0	No effect

Coat Length and Curl

Genetic Trait	Gene	Variant	Copies	Result
Long Hair (lh1)	FGF5	lh ¹	2	Long coat
Long Hair (lh2)	FGF5	lh ²	0	No effect
Long Hair (lh3)	FGF5	lh ³	0	No effect
Long Hair (lh4)	FGF5	lh ⁴	0	No effect
Long Hair (lh5)	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) Linkage test	FOXI3	Hr ^{oo}	0	No effect