



Trait	Tested variant	Genotype	Interpretation	Variant frequency (within breed)	(all dogs)
Color Locus E - Extensions		E <sup>m</sup> /E	The dog is likely to have a dark mask.		^
	Recessive Red, Yellow, Cream (e allele)	C/C	Dogs with this genotype do not carry any copies of the recessive e allele.	4.71%	23.66%
	Dark Mask (E <sup>m</sup> allele)	A/G	Dogs with this genotype have one copy of the E <sup>m</sup> allele typically associated with a dark facial mask.	31.76%	29.28%
	Grizzle, Domino (E <sup>g</sup> allele)	G/G	Dogs with this genotype do not carry any copies of the EG allele, the genetic variant associated with grizzle or domino coat color.	< 1%	< 1%
Color Locus B - Brown		B/b	The dog carries one copy of the b alleles causing brown pigment.		^
	Brown, liver (b <sup>c</sup> allele)	T/T	Dogs with this genotype do not carry any copies of the bc allele typically associated with brown pigment.	40.57%	11.33%
	Brown, liver (b <sup>s</sup> allele)	C/T	Dogs with this genotype have one copy of the bs allele typically associated with brown pigment.	22.13%	11.09%
	Brown, liver (b <sup>d</sup> allele)	-/-	Dogs with this genotype do not carry any copies of the bd allele typically associated with brown pigment.	39.08%	8.89%
	Brown, liver (Australian Shepherd allele)	T/T	Dogs with this genotype do not carry any copies of the b allele found in breed Australian Shepherd typically associated with brown pigment.	< 1%	< 1%

Trait	Tested variant	Genotype	Interpretation	Variant frequency (within breed)	(all dogs)
Color Locus K - Dominant Black		$k^Y/k^Y$	The dog is likely to express the coat color defined by the color locus A.		^
	Dominant Black ( $K^B$ allele)	-/-	Dogs with this genotype have no copies of the $K^B$ allele associated with solid black coat color.	1.84%	29.28%
Color Locus A - Agouti		$a^t/a^t$	The dog has genetically tan points or saddle tan pattern.		^
	Fawn, sable ( $a^Y$ -allele)	G/G	Dogs with this genotype do not carry the $a^Y$ allele.	< 1%	33.45%
	Tan Points, Saddle Tan ( $a^t$ allele)	C/C	Dogs with this genotype have two copies of the $a^t$ allele associated with black and tan or saddle tan color. The dog may carry the $a$ allele instead of the $a^t$ allele if recessive black is expressed in the breed.	99.39%	56.99%
	Recessive Black ( $a$ allele)	G/G	Dogs with this genotype don't carry the $a$ allele associated with recessive black coat color.	4.92%	7.71%
Color Locus S - Piebald or extreme white spotting		S/S	The dog is likely to have solid coat color with minimal white.		^
	Piebald or extreme white spotting ( $s^P$ allele)	S/S	The dog is likely to have solid coat color with minimal white.	2.87%	32.63%
Color Locus H - Harlequin		h/h	The dog doesn't have harlequin pattern.		^
	Harlequin (H allele)	h/h	The dog doesn't have harlequin pattern.	< 1%	< 1%
Color Locus C - Albinism	Albinism ( $c^{al}$ -allele)	C/C	The dog does not carry the tested mutation for albinism.	< 1%	< 1%
Colour Locus D - Dilution ( $d^2$ allele)	Dilution ( $d^2$ allele)	G/G	The dog does not carry any copies of the rare $d^2$ allele associated with dilution in Chow Chow, Sloughi and Thai Ridgeback.	< 1%	< 1%
Color Locus M - Merle	Merle (M allele)	M/m    M*/m	The dog may have merle pattern. It carries one copy of a <i>SILV</i> gene SINE insertion (either normal merle, atypical merle, cryptic merle or harlequin merle).	33.40%	3.53%

Trait	Tested variant	Genotype	Interpretation	Variant frequency (within breed)	(all dogs)
Saddle Tan Pattern	Saddle Tan ( <i>RALY</i> gene dupl.)	dup/dup	The dog may have tan points if it has tan point genotype at the A locus.	92.80%	44.18%