

# Ringneck Name/Phenotype/Genotype Chart

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Name/Trait:	D+	dB	dw	al	iv	ry	Ta	Fr	pi	L	Tf	cr	M	Genotype:	Phenotype:	Genes:			
Albino				x														Albino	<b>D+</b> = Dark (Wild Type)
Apricot	x				x		x							D+//	iv//iv	Ta//			<b>dB</b> = Blond
Ash	x						x	x						D+//	Ta//	Fr//			<b>dw</b> = White
Light Ash		x					x	x						dB//	Ta//	Fr//			<b>al</b> = Albino
Blond/Fawn		x												dB//					<b>iv</b> = Ivory
Bulleyed White			x						x					dw//	pi//pi				<b>ry</b> = Rosy
Champagne		x			x		x							dB//	iv//iv	Ta//			<b>Ta</b> = Tangerine
Chinmoy		x					x		x					dB//	Ta//	pi//pi			<b>Fr</b> = Frosty
Cream	x				x	x								D+//	iv//iv	ry//ry			<b>pi</b> = Pied
Light Cream		x			x	x								dB//	iv//iv	ry//ry			<b>L</b> = Silky
Crested												x						cr//cr	<b>Tf</b> = Tufted
Blond Frosty		x						x						dB//	Fr//				<b>cr</b> = Crested
Dark Frosty	x							x						D+//	Fr//				<b>M</b> = Modifier
Ice	x							x	x					D+//	Fr//	pi//pi			Gene symbols that are capitalized are dominant with lowercase being recessive.
Dark Ivory	x				x									D+//	iv//iv				
Blond Ivory		x			x									dB//	iv//iv				
Silver Ivory	x				x			x						D+//	iv//iv	Fr//			
Orange		x					x							dB//	Ta//				
Orange Neck		x					x	x					x	dB//	Ta//	Fr//	M//M		
Orange Pearled		x					x						x	dB//	Ta//Ta	M//			
Orange Whiteback		x					x						x	dB//	Ta//Ta	M//M			
Peach		x			x									dB//	ry//ry				
Pied									x									pi//pi	
Pink			x				x							dw//	Ta//				
Platinum	x				x		x	x						D+//	iv//iv	Ta//	Fr//		
Roan	x				x		x							D+//	ry//ry	Fr//			
Rosy	x				x									D+//	ry//ry				
Silky										x								L//	
Snow White			x				x							dw//	Fr//				
Sunkist		x			x		x							dB//	ry//ry	Fr//			
Tangerine	x						x							D+//	Ta//				
Tangerine Pearled	x						x						x	D+//	Ta//Ta	M//			
Tangerine Whiteback	x						x						x	D+//	Ta//Ta	M//M			
Tufted											x							Tf//	
Violet Neck	x						x	x					x	D+//	Ta//Ta	Fr//	M//M		
White			x											dw//					
Wild	x													D+//					

**Notes:**

- >D+, dB and dw are located on the sex chromosome. Since females have only one sex chromosome, they cannot carry dB and dw hidden.
- >dB is dominant to dw but recessive to D+.
- >All genes located on the sex chromosome are listed in the far left column of the Genotype and Phenotype grids.
- >pi, L, Tf, and cr do not affect color and may be produced in any color.
- >al/al masks all other homozygous color genes.
- >All genes that represent traits or colors that may be represented regardless of genotype are listed in the far right column of the Genotype and Phenotype grids.
- >Fr//Fr seems to be fatal.
- >L//L produces "super silky," an undesirable feather condition.
- >M// is a modifier gene that affects the extent of pearling on Ta//Ta creating the "whiteback" condition. There is still question about how the modifier works - for instance there may be some effect on single dose Ta.
- >Champagne and Apricot each have the same genotype. It is unclear whether there is an actual difference or if Champagne is just a color variation of Apricot.

The purpose of this chart is to offer a few different options to those wanting to know the genetic makeup of the different ringneck dove colors and traits. The left grid is simply a representation of which genes are involved with each color or trait, the center (Genotype) grid represents the written genotype and the right (Phenotype) grid represents what may be thought of as a spoken phenotype (for example, a Light Cream is a Blond/Ivory/Rosy) . Thank you to Wilmer Miller and John Fowler for their input and suggestions.