

Poultry Mutations Sub-Menu 3

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URL: http://home.ezweb.com.au/~kazballea/genetics/mutations3_print.html

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This section became quite large, so I've divided the mutation section into three pages:

Mutations:

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Page 1: Feather Colour/Pattern mutations
- Page2: Leg/Skin, Eye and Ear-Lobe Colour, plus Physical Mutations
- Page 3: Genes Tables

Poultry Mutations- Colour/Pattern Genes Table (alphabetical order)

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Locus	Alleles	Name	Inheritance Mode
<i>Plumage Colour/Pattern Genes</i>			
B	B ^{Sd} , B, b ⁺	Sex-linked Dilute, Sex-linked Barred	Sex-L. Inc. Dom
Bl	Bl, bl ⁺	Blue	Inc. Dom
c	C ⁺ c, c ^{re} , c ^a	Recessive White, Recessive White-Red Eyed, Albinism	Rec
Cb	Cb, cb ⁺	Champagne Blond	Dom
Cha	Cha, cha ⁺ ,	Charcoal	Dom
choc	Choc ⁺ , choc	Sex-linked Chocolate	Sex-L. Rec
Co	Co, co ⁺	Columbian	Dom
Db	Db, db ⁺	Dark Brown	Inc. Dom, Sex-Infl.
Di	Di, di ⁺	Gold Dilute	Inc. Dom
Dk	Dk1, Dk2, dk ⁺	Dark	Inc. Dom
E	E, E ^R , E ^{R-} , Fay, e ^{Wh} , e ⁺ , e ^b , e ^s , e ^{bc} , e ^y , e ^q	Extended Black, Birchen, Fayoumi Birchen, Dominant Wheaten, wild type, Brown, Speckled, Buttercup, Recessive Wheaten, Queen Silvia	Dom
Er	Er, er ⁺	Erminette	Inc. Dom
I	I ^S , I, I ^D , i ⁺	Smoky, Dominant White, Dun	Inc. Dom (Smoky- Rec-adult plumage to i ⁺ , Dom-chick down to i ⁺) (I ^S dominant to I), I dominant to I ^D

ig	Ig ⁺ , ig	Recessive Cream (Inhibitor of Gold)	Rec
ko	Ko ⁺ , ko	Sex-linked Head streak	Sex-L. Rec
lav	Lav ⁺ , lav	Lavender	Rec
Li	Li, li ⁺	Sex-linked Light Down	Sex-L. Dom
Mh	Mh, mh ⁺	Mahogany	Dom
Ml	Ml, ml ⁺	Melanotic	Inc. Dom , Sex-Infl.
mo	Mo ⁺ mo	Mottled	Rec
Pg	Pg, pg ⁺	Pattern Gene	Dom
rs	Rs ⁺ , rs	Red Splash	Rec
S	S, S ^{al-s} , s ⁺ , s ^{al}	Sex-linked Silver, Sex-linked Imperfect Albinism (Saskatchewan), wild type (sex-linked gold), Sex-linked Imperfect Albinism	Sex-L. Inc. Dom
sw	Sw ⁺ , sw	Snow White down	Rec
wh	Wh ⁺ , wh	Dorking White	Rec
		Grey (found in Australorps in South Africa)	Rec
<i>Eye Colour</i>			
br	Br ⁺ , br	Sex-linked Brown Eye	Sex-L. Rec
pk	Pk ⁺ , pk	Pink Eye (dilutes eumelanin plumage also)	Rec
?		Pearl	
<i>Leg- Skin Colour</i>			
Fm	Fm, fm ⁺	Fibromelanosis	Dom
g	G ⁺ , g	Yellow Head	Rec

Id	Id, id ^a , id ^c , id ^M , id ⁺	Sex-linked Inhibitor of Dermal Melanin, id ^a - re Ancona, id ^c - re Cornell line, id ^M -re Massachusetts line, wild type (dermal melanin)	Sex-L. Dom
w	W ⁺ , w	Yellow skin, wild type (white skin)	Rec
y	Y ⁺ y	Sex-linked white skin	Sex-L. Rec
<i>Egg Shell Colour</i>			
O	O, o ⁺	Blue Egg-shell (Olive)	Dom
pr	Pr ⁺ , pr	Inhibitor of Brown Egg-Shell	Sex-L. Rec



Poultry Mutations- Physical Genes Table (alphabetical order)

Locus	Alleles	Name	Inheritance Mode
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	categories	feather type, amount of feather, comb, size,	
?		Abnormal tibia metatarsal joints	
?		Crippling Abnormalilty (in Dark Cornish)	
?		Crooked Keel	Dom
?		Crossed Beaked - multiple genes	

?		Syndactyly (toe webbing- fused toes)	? not Sex-L.
?		Side Sprigs- 2 genes	Dom
?		Moulting Spurs	
?		Spurs in Females	
?		Trifid	Dom
?		Wing Patch (in Lavender birds)	?
?		Multiplex Combs	
adw	Adw ⁺ , adw	Autosomal Dwarf	Rec
af	Af ⁺ , af	Abnormal Feathering	Rec
Ap	Ap, ap ⁺	Apterylosis (Autosomal Nakedness)	Dom
As	As, as ⁺	Auxillary Spur	Dom
ba	Ba ⁺ , ba	Congenital Baldness	Rec
bd	bd, Bd ⁺	Breda Combless, wild type S	Rec
bf	Bf ⁺ , bf	Blistered Foot Lethal	Leth. Rec
By	By, by ⁺	Brachydactyly, wild type	Inc. Dom
Cl	Cl, cl ⁺	Short-Legged Cornish, wild type	Semi-Leth. Inc. Dom
Cp	Cp, cp ⁺	Creeper, wild type	Semi-Leth. Inc. Dom
Cr	Cr, cr ⁺	Crest, wild type	Inc. Dom
crt	Crt ⁺ , crt	Congenital Crooked Toes	Rec
D	D ^v , D ^c . d ⁺	Duplex Comb V-shaped, Cup -shaped	Dom
dac	Dac ⁺ , dac	Dactylolysis	Rec

dgp	Dgp ⁺ , dgp	Double Oil Gland Papillae	Rec
dr	Dr ⁺ , dr	Dysplastic Remiges (feathering)	Rec
ds	Ds ⁺ , ds	Double Spur	Inc. Rec
dw	Dw ⁺ dw ^B , dw ^M , dw	Sex-linked Dwarfism-Bantam, Sex-linked Dwarfism-MacDonald, Sex-linked Dwarfism, wild type	Sex-L. Rec
ed-1	Ed-1 ⁺ , ed-1	Edema 1 (Thigh Patch)	Rec
ed-2	Ed-2 ⁺ , ed-2	Edema 2 (Thigh Patch)	Rec
Et	Et, et ⁺	Ear Tufts	Semi-Leth. Inc. Dom
ext	Ext ⁺ , ext	Eight Tail Feathers	Inc. Rec
F	F, f ⁺	Frizzle, wild type	Inc. Dom
Fl	Fl, fl ⁺	Flightless	Semi-Leth. Inc. Dom
fr	Fr ⁺ , fr	Fray	Rec
Gt	Gt, gt ⁺	Long Tail & saddle feathers, wild type	Dom
h	H ⁺ , h	Silkie (Hookless) , wild type	Rec
Ha	Ha, ha ⁺	Feather Texture-Hardness	Dom
he ^l	He ⁺ , he ^l	Smooth Comb, Fewer Spike Numbers, wildtype (rough comb)	Rec
Hf	Hf, hf ⁺	Hen-Feathering, wild type	Inc. Dom

Ht	Ht, ht ⁺	Heel Tuft Stubs	Dom
Hy	Hy, hy ⁺	Hypoplasma of Tail Feathers	Dom
K	K ⁿ , K ^s , K, k ⁺	Sex-linked Slow Feathering	Sex-L. Inc. Dom
Lf	Lf, lf ⁺	Long Filoplumes	Dom
M	M, m ⁺	Multiple spurs, wild type	Inc. Dom
Mb	Mb, mb ⁺	Muff Beard, wild type	Inc. Dom
mf	Mf ⁺ , mf	Frizzle Modifier, wild type	Rec
Mp	Mp, mp ⁺	Ametapodia (extreme reduced legs)	Semi-Leth. Inc. Dom
mt	Mt ⁺ , mt	Non- moulting, wild type	Rec
n	N ⁺ , n	Sex-Linked Naked	Sex-L. Rec
Na	Na, na ⁺	Naked Neck, wild type	Inc. Dom
nk	Nk ⁺ , nk	Ottawa Nakedness	Rec
P	P, p ⁺	Pea comb , wild type	Inc. Dom
pc	Pc ⁺ , pc	Porcupine	Rec
pe	Pe ⁺ , pe	Genetics Perosis	Rec
Po	Po, Po ^d , po ⁺	Polydactyly	Inc. Dom
po-2	Po-2 ⁺ , po-2	Recessive Polydactyly	Semi-Leth. Rec
psp	Psp ⁺ , psp	Multiple trait Semi-Lethal (Ptilopody & Syndactyly)	Semi-L. Rec
Pti-1	Pti-1B, Pti-1L, pti-1 ⁺	Ptilopody 1 Brahma, Langshan	Inc. Dom
Pti-2	Pti-2, pti-2 ⁺	Ptilopody 2	Inc. Dom
pti-3	pti-3, Pti-3 ⁺	Ptilopody 3 (Pavloff)	Rec

R	R, r ⁺	Rose comb, wild type	Dom
rg	Rg ⁺ , rg	Recessive Sex-Linked Dwarfism	Sex-L. Rec
ropy	Ropy, ropy ₊	Ropy	Rec
Rp	Rp, rp ⁺	Dominant Rumpless, wild type	Semi-Leth. Inc. Dom
rp-2	Rp-2 ⁺ , rp-2	Recessive Rumpless, wild type	Rec
rw	Rw ⁺ , rw	Ragged Wing	Rec
sb	Sb ⁺ , sb	Spile Blade Comb (extra spike-end)	Inc. Rec
sb-1	Sb-1 ⁺ , sb-1	Recessive Stubs	Rec
Sb-2	Sb-2, sb-2 ⁺	Dominant Stubs	Dom
sc	Sc, sc ⁺	Scaleless	Rec
se	Se ⁺ , se	Sleepy Eyes	Rec
Sf1	Sf1, sf1 ⁺	Surplus Primaries 1	Dom
Sf2	Sf2, sf2 ⁺	Surplus Primaries 2	Dom
shl	Shl ⁺ , shl	Shankless	Lethal Inc. Rec
sl	Sl ⁺ , sl	Spurlessness, wild type	Rec
sn	Sn, sn ⁺	Sunsuit	Rec
st	St, st ⁺	Stringy	Rec
st-2	st-2, St-2 ⁺	Stringy 2	Rec
t	T ⁺ , t ^s , t	Tardy- Retarded Feathering, Tardy-Secondary Flights	Rec
U	U, u ⁺	Uropygial Gland	Inc. Dom
U-2	U-2, u-2 ⁺	Cleft and Double Papillae	Dom

v	V ⁺ , v	Vulture Hocks	Rec
wi	Wi ⁺ , wi	Wiry	Rec
wo	Wo ⁺ , wo	Wooly, wild type	Rec
wp	Wp ⁺ , wp	Wooly	Rec
Z	Z, z ⁺	Dominant Sex-Linked Dwarfism	Sex-L. Dom

Inheritance Mode

Dom = Autosomal Dominant, Rec = Autosomal Recessive,
 Semi-Leth. Inc. Dom = Semi-lethal Incompletely Dominant, Leth. Rec = Lethal Recessive, Semi-Leth. Rec = Semi-Lethal Recessive
 Sex-L. Rec = Sex-Linked Recessive, Sex-L. Dom = Sex-Linked Dominant, Sex-L. Inc. Dom = Sex-Linked Incompletely Dominant,
 Inc. Rec = Incompletely Recessive, Inc. Dom = Autosomal Incomplete Dominant, Co-Dom = Autosomal Co-Dominant.



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