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DOG COAT COLOR TEST RESULTS

FABRIZIA THELLIEZ LE PIGEONNIER LA GUILLONNIERE 86410 DIENNE FRANCE	Case: DDT3507 Date Received: 09-Jan-2012 Report Date: 13-Jan-2012 Report ID: 1412-0796-8775-5017
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<i>Name:</i> CLARIPUGS YOU CAN'T BE SIRIUS AT PU	<i>Reg:</i> AL04071901
<i>YOB:</i> 10 <i>Breed:</i> PG <i>Sex:</i> M <i>Microchip:</i> 985 141 000 594 235	
<i>Sire:</i> SIMOS I'M SIRIUS BLACK AT TIDEMILL	<i>Reg:</i> KC AE02106404
<i>Dam:</i> CLARIPUGS BRIQUETTE	<i>Reg:</i> KC AJ03661102

BROWN (TYRP1)

Not requested.

DILUTE (MLPH)

Not requested.

AGOUTI

Not requested.

DOMINANT BLACK
K/K

2 copies of dominant black are present, no brindle or fawn offspring will be produced

Dog Coat Color Results with Explanations

BLACK/RED (MC1R)

E/E - 2 copies of black cannot have clear red/yellow offspring.

E/e - 1 copy of black, carrier of clear red/yellow. Can produce clear red/yellow puppies, depending on the genetics of the mate.

e/e - clear red/yellow.

BLACK/RED (MC1R) + MELANISTIC MASK

Em/Em - 2 copies of mask are present - dog has mask.

Em/E - 1 copy of mask is present - dog has mask and carries black.

Em/e - 1 copy of mask is present - dog has mask and carries clear red/yellow.

E/E - 2 copies of black, dog cannot have clear red/yellow offspring.

E/e - 1 copy of black, carrier of clear red/yellow.

e/e - clear red/yellow.

DOMINANT BLACK - Black/ brindle or fawn

K/K - 2 copies of dominant black are present, no brindle or fawn offspring will be produced.

K/N - 1 copy of dominant black is present, brindle or fawn offspring can be produced, depending on the genotype of the mate. Note: with some breeds of dog this result is associated with the brindle pattern.

N/N - Dog does not have the dominant black mutation.

BROWN (TYRP1)

B/B - Does not carry brown - cannot have brown offspring.

B/b - 1 copy of brown present - carrier.

b/b - 2 copies of brown present - black pigment (if present) is diluted to brown, red/yellow dogs have brown noses and foot pads.

DILUTE (MLPH)

D/D - Full color, no dilute gene present.

D/d - Full color, carries 1 copy of the dilute gene.

d/d - Dilute, 2 copies of the dilute gene.

MELANISTIC MASK

Em/Em - 2 copies of mask are present - dog has mask.

Em/N - 1 copy of mask is present - dog has mask.

N/N - no copies of mask are present.

AGOUTI

a^y/a^y - Homozygous for fawn/sable.

a^y/a^w - Dog is fawn and carries wild sable.

a^y/a^t - Dog is fawn and carries black-and-tan.

a^y/a - Dog is fawn and carries recessive black.

a^w/a^w - Homozygous for wild-sable.

a^w/a^t - Dog is wild-sable and carries black-and-tan.

a^w/a - Dog is wild-sable and carries recessive black.

a^t/a^t - Homozygous for black-and-tan.

a^t/a - Dog is black-and-tan and carries recessive black.

a/a - Homozygous for recessive black.

Many genes are involved in the production of dog color and pattern. The results above are specific for known variants in ASIP, MC1R, CBD103, TYRP1 and MLPH and do not completely describe the color of a dog.