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## PROGRESSIVE RETINAL ATROPHY (PRA) REPORT

ANDREA A. S. VAN ELMPT VAALRIVIERSTRAAT 10A 1091 PD AMSTERDAM THE NETHERLANDS NETHERLANDS	<b>Case:</b> <b>CAT31879</b> <b>Date:</b> 09-Aug-2010 <b>Report Date:</b> 12-Oct-2010 <b>Report ID:</b> 0180-6214-9142-2004
<b>Cat:</b> DETREVANDE'S FORTUNE COOKY <b>DOB:</b> 04/27/20 <b>Breed:</b> AB <b>Sex:</b> F <b>Microchi</b> 528246001044489	<b>Reg:</b> MU.L10.ABY.009.3
<b>Sire:</b> CLARION LITTLEMAN TATE OF DETREVANDE <b>Dam:</b> HIGHGAITPAWS I'M OF DETREVANDE	<b>Reg:</b> CFA 0360-1601461 <b>Reg:</b> CFA 0361-1645778

PRA-CEP290	PRA-CRX Result
N/N	N/N

### Result Codes for PRA-CEP290:

N/N	Normal, cat does not have rdAc mutation*
N/rdAc	Carrier, cat has one copy of rdAc mutation. Breeding between carriers is expected to produce 25% affected kittens
rdAc/rdAc	Affected

rdAc is a progressive retinal atrophy that causes late-onset blindness.\* Affected cats are born with normal vision, show retinal degeneration at about 7 months and are blind by age 3-5 years. The condition is inherited as an autosomal recessive, and there is no treatment.

\* This test only detects the mutation in the CEP290 gene known to cause PRA-rdAc in Abyssinian, Somali, Ocicat, Siamese and related breeds, American Curl, American Wirehair, Bengal, Cornish Rex, Munchkin, Singapura and Tonkinese.

### Result Codes for PRA-CRX

N/N	Normal, cat does not have Rdy mutation**
N/Rdy	Affected, cat has one copy of the Rdy mutation. This cat will produce affected kittens 50% of the time when bred to a normal cat, or 75% of the time when bred to another cat
Rdy/Rdy	Affected, cat will always produce affected kittens.

Rdy is an early-onset retinopathy caused by a defective protein that is critical for eye development.\*\* Affected kittens display dilated pupils and sluggish pupillary reflexes around 2 weeks of age and often become blind by about 7 weeks of age. The condition is inherited as an autosomal dominant trait, and there is no treatment.

\*\* This test only detects the mutation in the CRX gene known to cause PRA-Rdy in Abyssinian and Somali breeds.