

WHAT'S YOUR DOG'S TALE?

Congratulations!

You're about to uncover the
story of your dog's ancestry.

In this report, you will find detailed results from Snoop's
ADVANCE® Mixed Breed Identification DNA Test.

In the following pages, you will learn about:

Chapter 1: Breed Detection

Chapter 2: Appearance, Behaviour and History

Chapter 3: Nutrition and Wellness

It is important to carefully review your entire report and discuss the results with your
veterinarian to gain the most valuable insight into Snoop.

Owner Name: **Leona Tooley**

Test Report Code: **8000015**

Date Printed: **May 9, 2012**

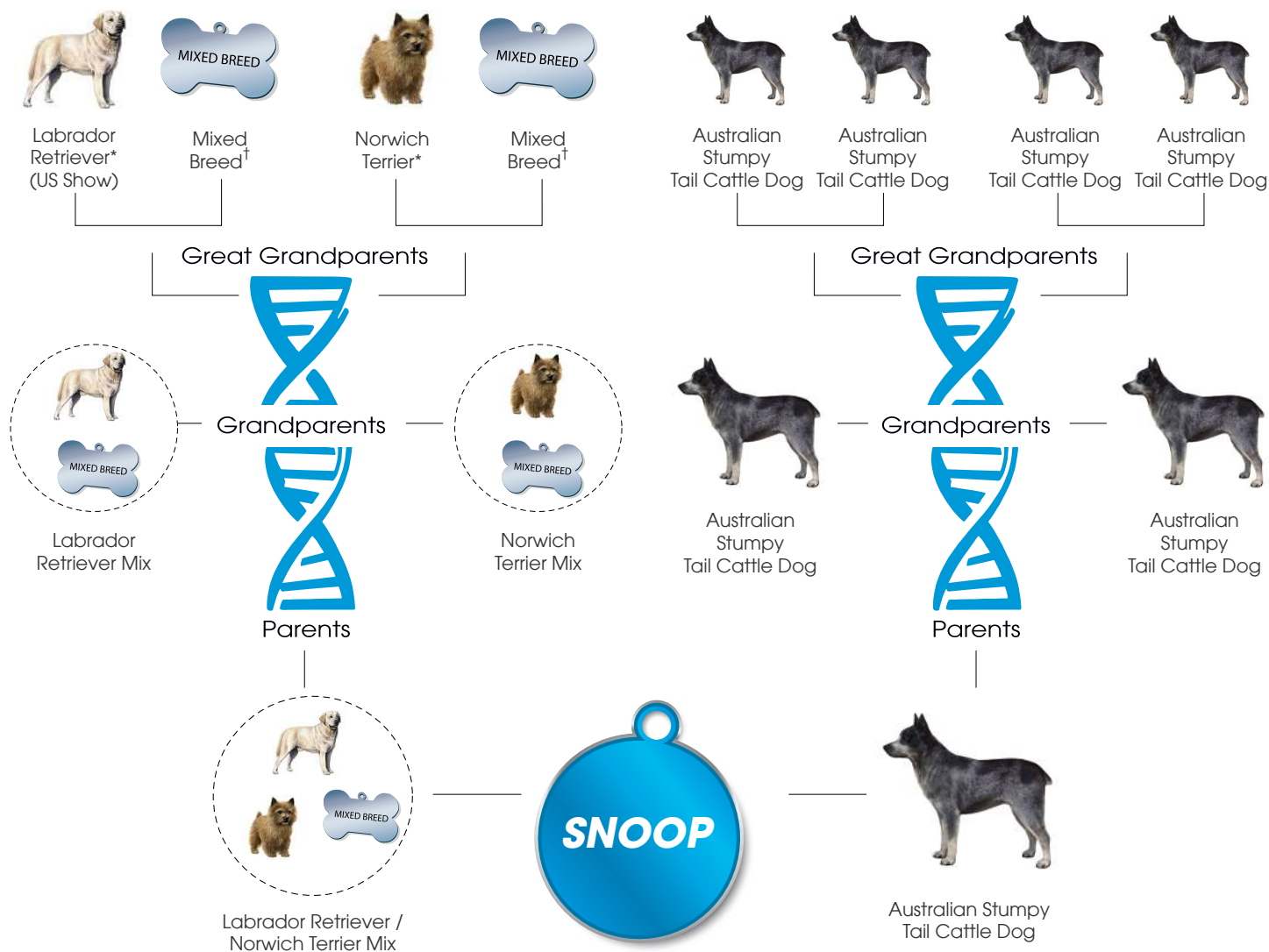


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WHAT BREEDS MAKE UP SNOOP?

The ADVANCE® Mixed Breed Identification DNA Test computer algorithm performed over seven million calculations using 11 different models (from a single breed to complex combinations of breeds) to predict the most likely combination of pure and mixed breed dogs in the last three ancestral generations that best fit the DNA marker pattern observed in Snoop. The ancestry chart depicting the best statistical result of this analysis is shown in the diagram below.



Labrador Retriever / Norwich Terrier Mix crossed with Australian Stumpy Tail Cattle Dog

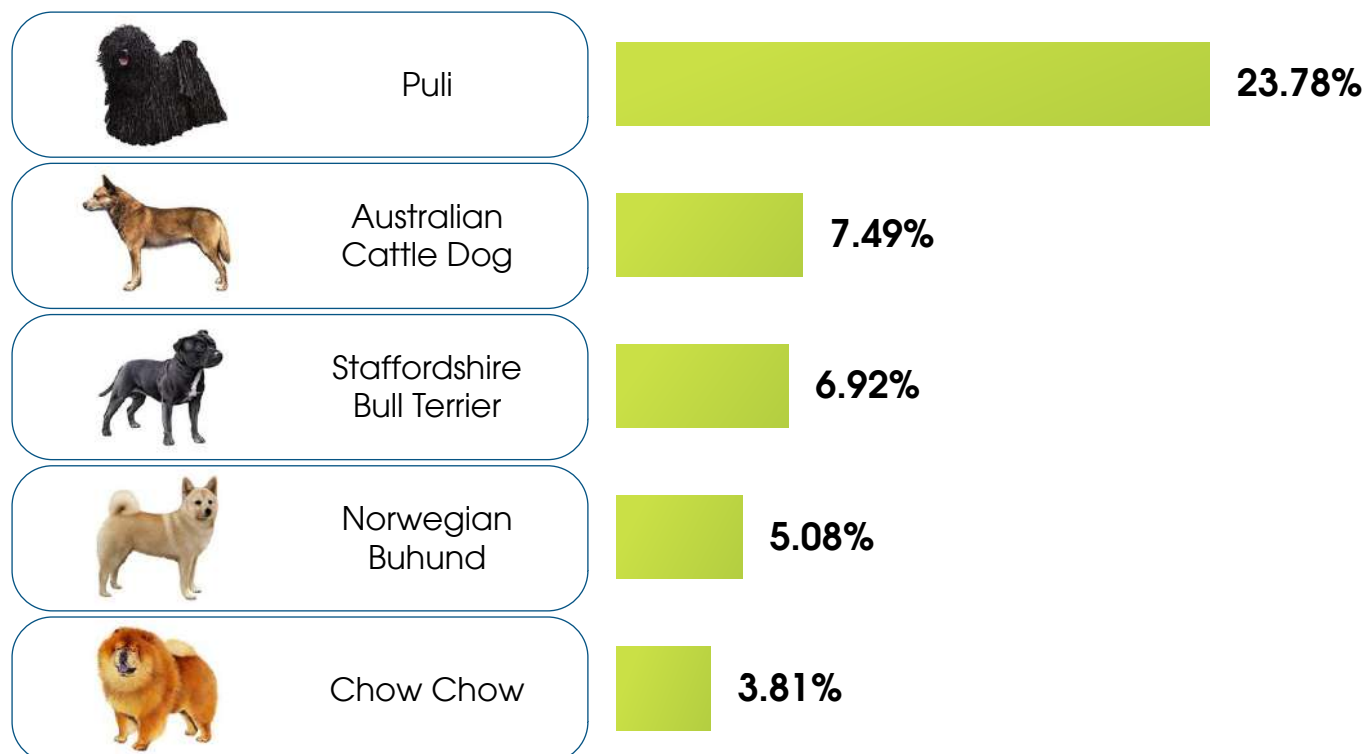
 † Curious about the Mixed breed ancestry? Take a look at the next page!

*Breed detected, however at a lower confidence. Such results are not included in accuracy calculations.



What does the Mixed Breed Ancestor mean for my dog?

We have identified for you the 5 next best breed matches which appeared in the analysis of your dog's DNA. One or more of these breeds could have contributed to the genetic makeup of the ancestors indicated by the mixed breed icon. The breeds are listed by the relative strength of each result in our analysis with the most likely at the top of the list. There could also be a breed or breeds present in the mixed breed component that we cannot detect with our current database of purebred dogs.



How the ADVANCE® Mixed Breed Identification DNA Test works:

The process started when you sent a sample to our laboratory, where the DNA was extracted from the cells and examined for the 321 markers that are used in the test. The results for these markers were sent to a computer, that evaluated them using a program designed to consider all of the pedigree trees that are possible in the last three generations. The trees considered include a simple pedigree with a single breed (a likely pure-bred dog), two different breeds at the parental level (a first-generation cross), all the way up to a complex tree with eight different great-grandparent breeds allowed.

Our computer used information for over 200 breeds, varieties, and types from our breed database to fill these potential pedigrees. For each of the millions of combinations of ancestry trees built and considered, the computer gave each a score representing how well that selected combination of breeds matched to your dog's data. The pedigree with the overall best score is the one which is shown on the ancestry chart. Only breeds that reached our set confidence threshold for reporting are reported in the ancestry chart.

THE INFLUENCE OF BREEDS ON APPEARANCE AND BEHAVIOUR

This report reveals the breeds detected in your dog's DNA. It also includes checklists of physical and behavioural traits associated with these breeds. Breeds can combine their influences in countless, fascinating ways. It's a unique combination that makes your dog one-of-a-kind.

Your dog may behave like - or strongly resemble - just one of the breeds in its makeup, but - much more commonly - your dog's looks and personality will blend aspects of these breeds. Consider the example below...

ADVANCE® Mixed Breed Identification DNA Test found these breeds in our example dog Riff:



Chihuahua



Toy Fox Terrier



Japanese Chin

In this example, while many of Riff's physical and behavioural traits suggest a blending of breed influences, there are certain aspects of her appearance and personality that suggest the influence of specific breeds.

PHYSICAL TRAITS:

CHIHUAHUA

An upright forward curving tail with a plume of hair is typical of the Chihuahua breed.



TOY FOX TERRIER

A strong broad muzzle, parallel to the skull beneath clear, bright dark-rimmed eyes as a common trait of Toy Fox Terriers.

BEHAVIORAL TRAITS:

JAPANESE TERRIER

Japanese Chins are known for being quiet, docile and relaxed with their human companions.

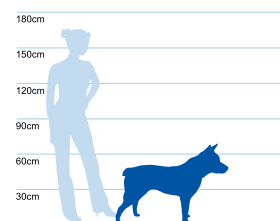


Australian Stumpy Tail Cattle Dog

Australian Stumpy
Tail Cattle Dog



Height: 43 - 51 cm
Weight (Show): 18 - 22 kg
Weight (Pet): 18 - 22 kg



The Stumpy Tail Cattle Dog breed began evolving in the early 1830s because of the need for a dog that could work cattle in Australia's very harsh environment. The breed that we see today is the result of many years of careful thought and selective breeding by dedicated people. Three breeds of dog went into the making of the "Stumpy". First there was the crossing of the Dingo with an English breed of dog called the Smithfield (these dogs were naturally bob-tailed) which is where the gene comes from that is still present in the Stumpy today. Then the progeny from these matings were crossed with the smooth coated blue merle Collie (commonly referred to today as the Australian Koolie) and so a breed of dog was born that cattlemen, then and today, swear is the best working dog in the world.

The outer coat is moderately short, straight, dense and of medium harsh texture. The undercoat is short, dense and soft. The coat around the neck is longer, forming mild ruff. The hair on the head, legs and feet, is short. Colours include red speckled with darker red markings on the head or blue speckled with black markings on the head.

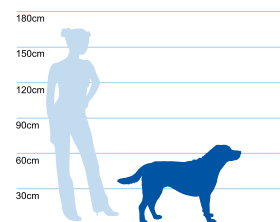
Do you recognise any of these Australian Stumpy Tail Cattle Dog traits in Snoop?

- This breed can be very vocal at times, so should be taught that barking is not allowed, unless there really is something to bark about.
- Although usually a working dog, it does well in a household as long as its exercise requirements and mental stimulation needs are met.
- The ideal owner for the Stumpy Tail Cattle Dog would be someone who appreciates an active dog.
- Obedience training with the Stumpy is a necessity as its intelligence needs harnessing.

Labrador Retriever



Height: 55 - 57 cm
 Weight (Show): 25 - 30 kg
 Weight (Pet): 22 - 35 kg



The Labrador Retriever can trace its roots to the coast of Newfoundland, Canada. The breed dates back to at least the seventeenth century when they were known as the "Lesser Newfoundland." The breed is believed to have descended from the extinct "St. John's Water Dog" which was a cross between native water dogs and the Newfoundland. Labrador Retrievers were initially trained to retrieve fishing nets from the cold waters of the North Atlantic. Fisherman brought them to England in the nineteenth century where they were lauded for their swimming, retrieving and hunting skills. The Earl of Malmesbury is believed to have coined the name Labrador in order to differentiate them from their Newfoundland ancestors. During the 1800's, a heavy dog tax in Canada and quarantine laws in Britain drastically cut the number of Labradors in the U.K., but a good breeding program replenished the stock. [The DNA detected from this breed is most similar to DNA sampled from American Kennel Club registered dogs.](#)

The Labrador Retriever comes in solid black, chocolate, and yellow. The yellow varies from a pale cream to a rich red fox colour. Some Labradors also have white chest blazes. The Dudley variant is where the nose is pink, though this is quite rare. Non-AKC registries sometimes recognise a Silver Variant though this may be classed as chocolate by the AKC.



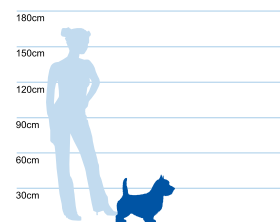
Do you recognise any of these Labrador Retriever traits in Snoop?

- Usually happy-go-lucky, calm, or easygoing dogs, though some may be energetic.
- Usually friendly and are generally good family dogs.
- Labrador Retrievers enjoy dog sports such as agility, hunting, tracking, rally and competitive obedience; retrieving and swimming.
- Quite food motivated, which may make it easier to teach the Labrador Retriever to drop retrieved items not intended for play.

Norwich Terrier



Height: 25 cm
 Weight (Show): 3 - 7 kg
 Weight (Pet): 3 - 7 kg



The Norwich Terrier was developed as a hunting breed by a British sportsman in the nineteenth century. The breed became very popular with Cambridge University students who kept them in their dorms. This popularity led to them becoming the official mascot of the University. Norwich Terriers were introduced to the United States after World War I. They were first accepted to the English Kennel Club in 1932 and the American Kennel Club in 1936, though they were recognised under the name "Norfolk Terrier" at the time. Later on, they were recognised independently as Norwich Terriers.

The Norwich Terrier has a wiry coat which comes in a range of red shades, wheaten, black and tan, or grizzle (black hairs in the coat). The black mask is a common trait in this breed, as well as other black markings and points.



Do you recognise any of these Norwich Terrier traits in Snoop?

- Active, alert, and intelligent dogs.
- Like dog sports such as earthdog trials, agility, racing, lure coursing, tracking, flyball, Frisbee, musical freestyle, and obedience.
- Good with children.
- Sensitivity and stubbornness may be reduced by using motivational tools such as treats and favourite toys in reward-based obedience training.

Predicted Adult Weight Profile for Snoop:

Based upon the breeds detected in Snoop’s ancestry and the genetic markers analysed by ADVANCE® Mixed Breed Identification DNA Test, we have calculated the likely weight that Snoop should reach when an adult. ADVANCE® Mixed Breed Identification DNA Test target weight profile is presented for a spayed Female as a range based on the unique mix and proportion of breeds detected.

Female Neutered
16 - 26 kg

Recommended Diet:

Adult Total Wellbeing All Breed - Chicken (Dry)
Adult All Breed - Chicken Turkey & Rice 410g (Wet)
If feeding dry and wet food, feed half the amount of each

Feeding Guide (Dry):

SIZE OF DOG		INACTIVE/INDOOR		ACTIVE/OUTDOOR	
		g/day	cup/day	g/day	cup/day
TOY	< 5 kg	< 80	< 0.7	< 100	< 0.9
SMALL	5- 10 kg	80 - 140	0.7 - 1.3	100 - 170	0.9 - 1.5
MEDIUM	10-25 kg	140 - 275	1.3 - 2.5	170 - 340	1.5 - 3.1
LARGE	25-50 kg	275 - 465	2.5 - 4.2	340 - 570	3.1 - 5.2
GIANT	> 50 kg	> 465	> 4.2	> 570	> 5.2

1 Standard metric cup = 115g. The above is a guide only, monitor your pets body condition for optimal health



\$10 off next purchase of **ADVANCE®**

at
Dr Jana’s Veterinary Centre
323 WAGGA ROAD, LAVINGTON NSW 2641
Dr. Jana Stevenson

SNOOP
Owner: Leona Tooley
8000015 May 9, 2012

TERMS AND CONDITIONS: Present this voucher at your local veterinary clinic to receive \$10 off your next purchase of any ADVANCE® dry product. One coupon per dog. Only valid at the above named veterinary clinic. Not valid with other promotions. Offer valid up to 12 months from date of report.

Thank you for choosing the ADVANCE® Mixed Breed Identification DNA Test to uncover the story of your dog's ancestry!

Congratulations on taking the steps to learn your dog's ancestry and to understand what breeds are in your mixed breed dog using the ADVANCE® Mixed Breed Identification DNA Test. Knowledge of your dog's genetic ancestry is more than a novelty – it is important to their health and wellbeing. Each breed in your dog's genetic family tree has unique health concerns you should know about so that you can provide a lifetime of excellent care.

Screen Snoop for over 35 genetic diseases

Boxer Cardiomyopathy	GM1 – Gangliosidosis	Progressive Retinal Atrophy - cord1
Canine Hyperuricosuria	Hereditary Cataract	Progressive Retinal Atrophy - rcd 3
Canine Leucocyte Adhesion Deficiency	Ivermectin Sensitivity MDR1	Progressive Retinal Atrophy -Rcd1
Cerebella Ataxia	L-2- hydroxyglutric Aciduria	Progressive Retinal Atrophy -rcd1a
Congenital Hypothyroidism	Mucopolysaccharidosis	Pyruvate Kinase Deficiency
Congenital Stationary Night Blindness	Muscular Dystrophy X-linked (MDX)	Renal Dysplasia
Copper Toxicosis	Myotonia Congenita	von Willebrand's Disease Type I
Cystinuria	Myotubular Myopathy X linked	von Willebrand's Disease Type III
Degenerative Myelopathy	Narcolepsy	
Dilated Cardiomyopathy	Natural Bob Tail	
Exercise Induced Collapse	Neonatal Encephalopathy	
Factor VII Deficiency	Neuronal Ceroid Lipofuscinosis	
Familial Nephropathy	PDP Deficiency	
Fucosidosis	Phosphofructokinase Deficiency	
Globoid Cell Leukodystrophy	Primary Lens Luxation	

Highlighted diseases are those associated with the breeds discovered in Snoop's genetic ancestry.

Visit www.asaplab.com.au/breedspecifichealth to find out more about the genetic diseases associated with the breeds detected. You will find out about the genetic diseases relevant to breeds and incidence of these diseases. Screening for these diseases is simple and requires no further sample to be submitted (please note that samples are stored for three months). Simply discuss the request with your veterinarian and they will contact ASAP to organise a full genetic health screen. This may help in the early detection of diseases as well as assist in planning a care and wellness program for Snoop.

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Tell Your Dog's Tale



Visit www.facebook.com/ADVANCEpet and join our online community of dog lovers and share your dog's ADVANCE® Mixed Breed Identification DNA Test report.

PLEASE NOTE: Each dog is unique and their physical and behavioural traits will be the result of multiple factors, including genetics, training, handling, and environment. ADVANCE® Mixed Breed Identification DNA Test's proprietary genetic analysis provides insight into the behavioural traits in breed that have been identified in your dog, the predicted genetic adult weight and breed related risk of developing certain genetic diseases. A dog's weight range can vary significantly depending on age, diet and exercise. The ADVANCE® Mixed Breed Identification DNA Test is not intended to diagnose diseases or predict behaviour in any particular dog.

If the test results indicate that your dog is partly or wholly of a breed that is restricted in your State or Territory, you may have obligations to update the registration information for your dog, to apply for a special permit, or to meet other requirements relating to the ownership and care of your dog. Please contact your local council for further information regarding which breeds are restricted in your State or Territory and your obligations in respect of such dogs.

Breeds restricted in most parts of Australia include: Perro de Presa Canario (Presa Canario), American Pit Bull Terrier (Pit Bull Terrier), Japanese Tosa, Dogo Argentino and Fila Brasileiro.

This test may not identify all of these restricted breeds. If you are concerned that your dog may be partly or wholly of a restricted breed, you should contact your local council for information about how to obtain further testing.

ADVANCE® Mixed Breed Identification DNA Test is designed and intended to be used solely to identify the genetic make-up of a mixed-breed dog. It is not designed to validate the purity of a purebred dog, and test results should not be relied upon as official certification of your dog's genetic make-up, including for the purposes of the laws relating to restricted breeds.

The ADVANCE® Mixed Breed Identification DNA Test has been adapted from the US Wisdom Panel Professional Mixed-Breed Identification test for use on Australian dogs. Validation testing conducted for the Wisdom Panel Professional test resulted in Sensitivity of 97% and Positive Predictive Value of 90% in first-generation US crossbred dogs of known parentage. The breeds included in the panel for the Wisdom Panel validation study represented 45% of American Kennel Club registrations. Breeds detected at the lowest level of certainty were not included in the accuracy calculation.

The ADVANCE® Mixed Breed Identification DNA Test has not undergone equivalent validation trials for Australian dogs, but modelling and research indicate that it is likely to have similar average accuracy to the Wisdom Panel Professional test. Accuracy for an individual dog may be greater or less than average, depending on an individual dog's lineage and origin.

Should you have any queries about this product, please contact us: Telephone 1800 640 111, or write to Reply Paid No 4, ADVANCE® Customer Enquiries, PO Box 153, Wodonga, VIC 3689 © Registered Trademark. TM Trademark. © Mars.

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Breed Ancestry Certification

The ADVANCE® Mixed Breed Identification DNA Test certifies that:

Snoop

is a genetic mixture of the following canine breeds:
Australian Stumpy Tail Cattle Dog, Labrador Retriever and
Norwich Terrier.

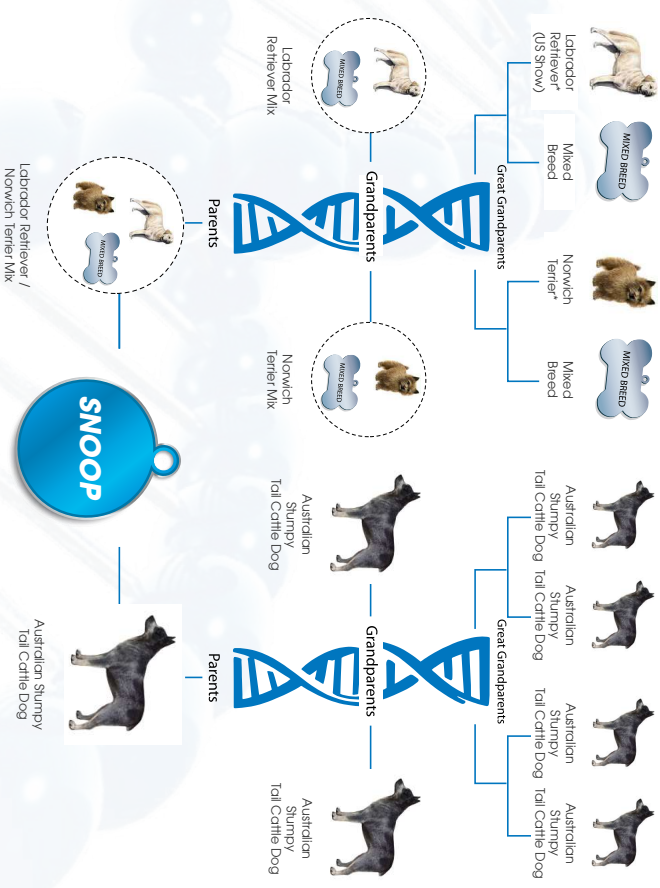
Statement of Authenticity

This certifies the authenticity of Snoop's canine genetic background as determined following careful analysis of more than 300 genetic markers using the ADVANCE® Mixed Breed Identification DNA Test. The purebred dog breed signature matches included in this analysis are those that were detected in the last three generations of Snoop's ancestry using the proprietary breed detection algorithm.



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Labrador Retriever / Norwich Terrier Mix crossed with Australian Stumpy Tail Cattle Dog