

Genetic Identification and Lineage Control

What's the use of genetic identification ?

Genetic identification, through **microsatellite markers**, enables one to write the **individual's genetic Identity card**.

This ID is **unique, universal and impossible to tamper with**.

It will, consequently, bring undisputable evidence when it comes to certification of pedigrees, and it will help against traffic,...

In practical terms, for a breeder, genetic identification has many advantages :

- **Verification of puppies lineage** (presumed multi-sired litter, accidental covering
- Bringing **quality certification** to the breeding.
- To value a **champion**
- Insuring the cat has a **pedigree**
- Identification of the cat in case of theft.
- Facilitate the registration, easy inscription to official cat breed lists
- Not to have to screen genetic disease on puppies when parents are already screened healthy.



What is a microsatellite marker?

It is a marker used to **identify the genetic print of an individual**. Today, the markers used as the basis for genetic identification **in the whole world** are those given by the scientific community through the **ISAG** (International Society of Animal Genetics). For feline, ISAG norm has **19 microsatellite markers** used to differentiate or associate 2 genetic profiles.

What is ISAG ?

The International Society of Animal Genetics (ISAG) provides a forum of information, methods, results and scientific applications around the world. Its purpose is to encourage fundamental research in animal genetics. It organizes workshops and conferences and is at the origin of panels of microsatellite markers for the lineage control of bovine, equine, canine, feline animal. Today, the international scientific community and laboratories use ISAG norms for their interest, scientific credit and relevance.



How much credit can be given to a DNA certified pedigree?

Comparing genetic profiles theoretically allows undisputable certification of pedigrees. Nevertheless, it is the choice of scientific comparison panel which will determine the quality and reliability of the test. It is the laboratory's quality policy, its accreditations and awards which attest to the reliability of the tests done by a laboratory.

How do I have to proceed to realize the genetic identification of my puppies?

You just have to ask for a sample collection kit to the lab by phone or by mail (Supplied free of charge by GENINDEXE) and to go to your veterinarian. This last one is going, by its professionalism, to insure the quality of the taking and to authenticate the taken animals. Then send the takings with the payments to GENINDEXE who will realize analyses and will establish the scientific reports.

To make you benefit from a control of lineage and from an even more successful genetic identification, GENINDEXE is an institutional member of the Society for Animal Genetics (ISAG) and, as such, take part in tests inter laboratories to :

- Validate DNA tests on a number growing of species
- Finalize new genetic tests
- Control the laboratory's performances

For more information, please contact us !

