

# AGREEMENT PROTOCOL

between the Parties

Fédération pour la gestion du Livre Officiel des Origines Félines  
1 rue du Pré St Gervais  
93697 PANTIN CEDEX  
FRANCE  
Association, SIRET 410 757 025 00037

hereafter referred to as “LOOF”

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hereafter referred to as “the Laboratory”

## Context

LOOF is an association holding the pedigree register for all breed cats born in France. As such, and within its mission to enhance feline breeds’ health, it aims at encouraging breeders and cat owners to have their cats tested for a certain number of genetic heritable diseases. To this avail, it introduces the possibility of having the results of these tests appear on the genealogic documents of the cats.

The Laboratory has expertise and experience in cat DNA testing for all genetic mutations in their associated breeds as certified by checking the appropriate boxes in annex A of the present agreement.

## Agreement

The above parties agree that the results of genetic testing performed by the Laboratory on the DNA of cats for any of the above mutations may be printed on LOOF genealogic documents where these cats appear. To this avail, they agree on the following necessary conditions:

- the breeder or owner of the cat sends a copy of the genetic test result to LOOF;
- the biological sample (typically a buccal swab) is authenticated by an officially registered veterinary surgeon, who certifies that the sample sent to the lab originates from the cat whose microchip number is given; clear mention of this must be written on the test submission form of the Laboratory;

- this veterinary surgeon is a different person (third party) than the cat breeder/owner;
- the test submission form used is compliant with the model provided by the Laboratory and given in annex B of the present protocol ; it includes the signature and stamp of the veterinary surgeon who certifies that the sample corresponds to the animal identified on the form; it must allow a non-ambiguous identification of who this veterinary surgeon is; the document must clearly specify that the sample must be sent under the veterinary surgeon's responsibility.
- LOOF will be informed of any future evolution of this submission form and will decide whether the new format is fit to be used in the current protocol or not;
- the test result document issued by the Laboratory is issued on the lab's official paper, mentions the cat's identification number, the date of sampling and the coordinates (first and last name, official order number if available, e-mail address and/or telephone number) of the vet who has sampled the cat; this mention of the vet implies that the Laboratory has checked that the submission form was signed and stamped by the veterinary, who may be contacted for any check;
- this test result document is compliant with the model provided by the Laboratory and given in annex C of the present protocol;
- LOOF will be informed of any future evolution of this test result document and will decide whether the new format is fit to be used in the current protocol or not; previous formats may also be accepted by LOOF for tests done before this protocol was signed, subject to their offering the minimum level of security defined above;
- the Laboratory assumes full responsibility, towards the breeder or owner of the cat or towards LOOF, for the validity of the results provided ;
- the Laboratory accepts to be interrogated by LOOF in order to authenticate a result, at least for some random samples or when there is a doubt; this interrogation is possible by e-mail at the following email address:  
.....  
or through a specific server whose details are given in annex.  
In any case, the answer delay shall not exceed 2 working days.
- LOOF publishes the coordinates of the Laboratory on its web site, with a link to the Laboratory's site where cat owners may find the applicable conditions and the price list for testing : .....
- the Laboratory keeps LOOF informed of any changes in the list of tests it is able to carry on the different breeds of cats, including the availability of new tests as well as the removal of tests;
- LOOF keeps the Laboratory informed of any new genetic test potentially eligible for appearance on the LOOF genealogy documents, and any removal of the aforementioned tests.

Both parties will do their best effort to advise the other party of any inconsistency or fraud that they might have become aware of regarding the concerned test results, with an aim in improving the reliability of the whole process.

## General dispositions

Both parties to the present protocol also agree that :

1. The present protocol is not limited in time.
2. The Laboratory is informed that LOOF has signed similar protocols with other laboratories ; therefore, it may not claim any exclusive rights with LOOF for the realisation of DNA tests for the mutations listed in annex A of the present protocol.
3. The Laboratory pledges not to interfere or harm LOOF in any way, whether regarding the management of the pedigree register for breed cats born in France or in the relationship between the breeder or owner of the cat and LOOF.
4. This protocol does not lead to financial compensation of any form between the Laboratory and LOOF.
5. This protocol may be terminated at any time by any one of the parties, without need to justify the reasons and without compensation, by a registered letter with recorded delivery sent to the other party, with one-month advance notice.
6. In case of difficulties linked to the interpretation of the present protocol, to its application or upon its termination, not solved between the parties, French law will be the sole law applicable, with Bobigny's « Tribunal de Grande Instance » being the only court of competent jurisdiction.
7. Although all efforts have been put in having the current English version of the protocol fully consistent with the French version, the French version takes precedence over the English version in the event of a divergence of interpretation between them.

Signed in two copies, on .....

*(stamp and signature of the person authorised to act on behalf of each party)*

For LOOF,  
Marie-Bernadette PAUTET, president

For the Laboratory,

## Annex A-1

### List of Genetic Mutations and the Associated Breeds December 2016 version

*Each box in the first column shall be ticked individually to mean that the Laboratory has expertise and experience to perform the corresponding test. In order to avoid ambiguities, the total number of checked rows shall be summarized below the table.*

<i>Check if available</i>	Disease	Abr.	Concerned Breeds	Gene	Mutation
	GM1 Gangliosidosis	GM1	Korat	<i>GLB1</i>	c.1448G>C
			Siamese/Oriental (and longhair)		
			Thai		
	GM2 Gangliosidosis	GM2-K	Korat	<i>HEXB</i>	c.39delC
	GM2 Gangliosidosis	GM2-B	Burmese/Bombay	<i>HEXB</i>	c.1244-8_1250del
	Glycogen storage disease type IV	GSD4	Norwegian Forest Cat	<i>GBE1</i>	334bp ins 5' - 6.2kb del
	Hypertrophic Cardiomyopathy	HCM-MC	Maine Coon	<i>MyBPC3</i>	c.93G>C [A31P]
	Hypertrophic Cardiomyopathy	HCM-R	Ragdoll	<i>MyBPC3</i>	c.2460C>T [R820W]
	Hypokalaemic Polymyopathy	HK	Burmese/Bombay	<i>WNK4</i>	c.2899C>T
	Progressive Retinal Atrophy	PRA-rdAc	Abyssinian/Somali	<i>CEP290</i>	IVS50+9T>G
			American Curl		
			American Wirehair		
			Cornish Rex		
			Munchkin		
			Ocicat		
			Siamese/Oriental (and longhair)		
			Singapura		
			Thai		
			Tonkinese		

*Total number of checked boxes in the table of this page: .....*

<i>Check if available</i>	Disease	Abr.	Concerned Breeds	Gene	Mutation
	Polycystic Kidney Disease	PKD	Persian/Exotic	PKD1	c.10063C>A
			British		
			Burmilla		
			Scottish/Highland		
			Selkirk		
	Pyruvate Kinase Deficiency	PKDef	Abyssinian/Somali	PKLR	c.693+304G>A
			Bengal		
			Egyptian Mau		
			LaPerm		
			Maine Coon		
			Norwegian Forest Cat		
			Savannah		
			Siberian		
			Singapura		
	Spinal Muscular Atrophy	SMA	Maine Coon	LIX1 (& LNPEP)	140kb del, exons 4-6
	Spasticity	CMS	Sphynx	COLQ	c.1190G>A
			Devon Rex		
	Burmese Head Defect	BHD	American Burmese	ALX1	c.496del CTCTCAGGACT G
			Bombay		
	Nudity	NUDE	Birman	FOXN1	c.1030_1033 delCTGT

Total number of checked boxes in the table of this page: .....

## Annex A-2

### Blood Group: genetic test of the b allele December 2016 version

Concerning the genetic test for the b allele (CMAH gene involved in the blood group), which enables to distinguish between:

- a cat of group A or AB not carrying the b allele;
- a cat of group A or AB carrying the b allele;
- a cat of group B (homozygous bb),

this test is currently selected by LOOF for all breeds except Bengal, Chausie, European Shorthair, Ragdoll, Savannah, Siberian, Sphynx and Turkish Angora.

*Each box in the first column will be checked individually to mean that the Laboratory tests the corresponding mutation of the CMAH gene.*

*Complete the list of breeds you want to exclude if need be*

<i>Check if mutation tested</i>	Mutation	Excluded breeds
<input type="checkbox"/>	-371C>T (5'UTR)	
<input type="checkbox"/>	Del 53 (5'UTR)	
<input type="checkbox"/>	c.139G>A (exon 2) (= c.142G>A*)	
<input type="checkbox"/>	c.136C>T (exon 2) (= c.139C>T*)	

\*New terminology according to Gandolfi et al. Plos One 2016

*Total number of checked boxes in the table of this page: .....*

Update date of the present annex A-1 (including A-1 and A-2): .....

For LOOF,  
Marie-Bernadette PAUTET, president

For the Laboratory,