

Genetic testing for Active Registration – Guidance for Breeders

All Norwegian forest cats registered with GCCF as active for breeding must be registered on one of two registers.

- **Active**, being clear of all genetically tested diseases listed for registration,

OR

- **Genetic/Non-Active**, being a carrier of one or more of the genetically tested diseases listed for registration.

Any cat tested as Affected for one or more of the genetically tested diseases listed for registration cannot be registered as active and should be neutered.

List of the genetically tested diseases required for registration on an active register:

1. PKDef
2. GSDIV

Genetics behind PKDef and GSDIV

PKDef and GSDIV are both autosomal recessive, this means a cat has to have two 'mutant' genes for the cat to be affected by the condition. Cats with one mutant gene are carriers of the condition, this means they are not affected by the condition but can pass this mutant gene onto their offspring.

A Normal cat has two normal genes this is written as N/N

A Carrier cat has one normal gene and one 'mutant' gene this is written as N/n

An Affected cat has two mutant genes and is written as n/n

Ideal Matings

Normal Cat to Normal Cat

		Sire	
Dam		N	N
	N	N/N	N/N
	N	N/N	N/N

Normal to normal mating will produce 100% Normal offspring.

Acceptable Matings

Carrier Cat to Normal Cat

		Sire	
Dam		N	N
	N	N/N	N/N
	n	N/n	N/n

		Sire	
Dam		N	n
	N	N/N	N/N
	N	N/n	N/n

Carrier to Normal matings will produce 50% normal 50% carrier offspring.

Unacceptable Matings

		Sire	
Dam		N	n
	N	N/N	N/n
	n	N/n	n/n

Carrier to carrier mating will produce 25% normal cats, 50% carrier cats and 25% affected cats.

Process for Testing

The example below uses Langford Vets Cat Genetics Testing Service, but other diagnostic laboratories offer genetic testing and are acceptable, so long as the same vet verified process is followed.

1. Obtain the discount code for testing from NFC/NSS Club Secretary for use at Langford Vets
2. Go to the downloads page on the Langford web site
<https://www.langfordvets.co.uk/diagnostic-laboratories/information-downloads/>
3. Select the Cat Genetic Testing Swab Request Form
4. Complete this form and check the “Yes, please send me the paper submission forms” option
5. Once the forms and swabs have been received, complete the form “Cat Genetic Test Submission Form – Vet Submissions” and take with the swabs to your vet, along with the supplied envelope. (Suggest this is done at the same time as say a routine vaccination to save on costs)
6. Vet to check the details on the form and that the microchip number on the form matches the cat from which the sample will be taken. Vet to do the swabs and post off to the laboratory in supplied envelope
7. Pay Langford’s either online or by direct transfer or via vet



Cat Genetic Test Submission Form – Vet Submission

A vet, who is not the owner of the cat(s), must take the sample(s) after confirming the cat's microchip number and sign the form below. This vet must also post the sample(s) and completed form to:

Genetic Tests, Diagnostic Laboratories, Langford Vets, Langford, BS40 5DU, UK.

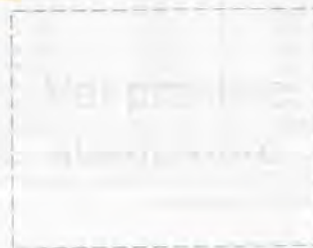
Please complete **ALL** sections of this form in **BLOCK CAPITALS** and mark the boxes on the reverse for the test(s) required. Results will be emailed to the owner. Please note, this form is only valid if signed and submitted by a registered veterinary surgeon (forms completed by a vet nurse will receive results as non-vet checked).

Owner's name						
Address						
Email	Telephone:					
Vet's name						
Vetinaire N° <small>(For LOOF registration)</small>	Sampling date:					
Practice address						
Email	Telephone:					
Payment <small>(Please indicate)</small>	Owner will pay laboratory directly <input type="checkbox"/>			Invoice to be sent to Vet Practice <input type="checkbox"/>		
	Name	Microchip N°	Reg N°	Breed	DoB	Sex
Cat 1						
Cat 2						
Cat 3						
Cat 4						

I agree that sample(s) may be used anonymously for statistical and research purposes, which may be published. Please make cheques payable to Langford Veterinary Services Ltd, or you can pay by Debit or Credit card over the telephone at 0117 394 0510 or email catgenetics@langfordvets.co.uk

Signed (Vet): _____ Date: _____

Signed (Owner): _____ Date: _____



Breed Society Promotional code: _____

For further information on tests and samples, please visit our website: www.catgenetics.co.uk
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Cat Genetic Test Submission Form – Vet Submission

Genetic Diseases (place X in box)	Example	Cat 1	Cat 2	Cat 3	Cat 4
Bengal Progressive Retinal Atrophy (PRA-b)					
BSH Autoimmune Lymphoproliferative Syndrome (ALPS)					
Burmese GM2 Gangliosidosis					
Burmese Head Defect					
Burmese Hypokalaemia					
Congenital Myasthenic Syndrome (CMS)					
Glycogen Storage Disease IV (GSD IV)					
Korat GM1 Gangliosidosis					
Korat GM2 Gangliosidosis					
Maine Coon Hypertrophic Cardiomyopathy (HCM)					
Mucopolysaccharidosis VI (MPS VI)					
Persian Progressive Retinal Atrophy					
Polycystic Kidney Disease (PKD)	X				
Progressive Retinal Atrophy (rdAc)					
Pyruvate Kinase Deficiency (PKDef)					
Ragdoll Hypertrophic Cardiomyopathy (HCM)					
Spinal Muscular Atrophy (SMA)					
Genetic Traits (Colours etc, place X in box)	Example	Cat 1	Cat 2	Cat 3	Cat 4
Agouti Coat Colour					
ALC Agouti Coat Colour					
Amber Coat Colour					
Birman Gloves					
Burmese Coat Colour					
Chocolate Coat Colour					
Cinnamon Coat Colour	X				
Coat Length					
Devon Rex Coat					
Dilute Coat Colour	X				
Feline Blood Type					
Siamese Colourpoint					
Sphynx Hairless Coat					
Total N° of tests per cat	3				
Price per cat (see below) inc VAT	£70.80				Grand Total (inc. VAT) £

Cat Genetic Test Prices 2020/21

TESTS PER CAT	LIST PRICE		BREED SOCIETY PRICE	
	Exc VAT	Inc VAT	Exc VAT	Inc VAT
1 test	£31.50	£37.80	£25.20	£30.24
2 tests	£45.25	£54.30	£36.20	£43.44
3 tests	£59.00	£70.80	£47.20	£56.64
4 tests	£72.75	£87.30	£58.20	£69.84
5 tests	£86.50	£103.80	£69.20	£83.04
6 tests	£100.25	£120.30	£80.20	£96.24
7 tests	£114.00	£136.80	£91.20	£109.44
8 tests	£127.75	£153.30	£102.20	£122.64

Members of registered breed societies are eligible for a 20% discount on all genetic testing. Please supply a Breed Society Promotional Code (available from your breed society) to obtain these prices. If they have not yet registered please ask them to contact us.

Diagnostic Laboratories, Langford Vets, Langford, BS40 5DU

T: 0117 394 0510 • F: 0117 928 9613 • E: catgenetics@langfordvets.co.uk • W: catgenetics.co.uk

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