

Pompe disease (Glycogen storage disease type II)

Glycogen storage disease type II is also known as acid maltase deficiency or generalized glycogenosis type II. Glycogen storage disease type II is a disorder of glycogen metabolism that affects the Finnish Lapphund, Swedish Lapphund and Lapponian herder. The disease can manifest itself as vomiting, muscle weakness with exercise intolerance, and poor growth. Affected dogs are often diagnosed at a young age (6 months) and euthanized before the age of 2 years.

FLCGB recommend for all breeders to monitor the published list of tested dogs on:

http://www.lappalaiskoirat.fi/?id=jalostus/pompen_slk

This list is updated monthly. Please inform Lappalaiskoirat of the results if you have your dog tested using this email: lappalaiskoirat.jtk@gmail.com

Should a breeder find any cases of either CARRIER or AFFECTED closely related to their breeding dogs, we are recommending that the dogs are DNA tested before being used in breeding.

We also recommend that any popular sires are tested (Sire used >5 litters)

The results below are kindly provided by the owners of the dogs or found in the public domain. **Updated 12-07-2013**

All DNA tests are carried out by GENOSCOOPER

Results are reported as follows: Clear, Clear by heredity, Carrier, Affected

NORMAL

The dog carries two normal copies of the gene and has no or reduced likelihood of developing the disease during its life.

CARRIER

The dog carries the mutation in one of its chromosomes and transfers it to approximately 50% of its offspring. If a carrier must be mated, it should only be with a genetically tested healthy non-carrier.

AFFECTED

The dog carries two copies of the mutation and is at high risk of developing GSD II during its life. An affected animal, even if not yet showing symptoms, will pass on the mutation to all of its offspring, and its use in breeding is not recommended.

Pompe disease DNA testing results

	Result	Sex	Sire	Dam	Notes
Arianrhod Kirinkurri	Clear	D	Elbereth Keskiyö for Infindingo	Elbereth Huvi for Arianrhod	
Black Blossom Troll Fia	Clear	B	Lapinlumon Zompa	Black Blossom Lady Valreas	
Bridus Ihana	Clear	D	Elbereth Mikko	Lumiturpa Mamman Mamo	
Bridus Markku	Clear	B	Elbereth Mikko	Lumiturpa Mamman Mamo	
Bridus Pikkumimmi	Clear	D	Elbereth Mikko	Lumiturpa Mamman Mamo	
Bridus Rakas	Clear	D	Elbereth Mikko	Lumiturpa Mamman Mamo	
Bridus Santtu	Clear	D	Elbereth Mikko	Lumiturpa Mamman Mamo	
Ivydale Aamutahti	Clear	B	Chelville Tapio	Thulens Aamu of Ivydale	
Ivydale Mielikki	Clear	B	Glenchess Iloas	Ivydale Aamutahti	
Ivydale Tellervo	Clear	B	Chelville Tapio	Thulens Aamu of Ivydale	
Elbereth Ainokainen	Clear	D	Elbereth Sankari	Lumiturpa Onneli at Elbereth	
Elbereth Ilo at Starlapps	Clear	B	Lecibsin Hapmi	Lumiturpa Pigga at Elbereth	
Elbereth Kia Joins Bridus	Clear	B	Lecibsin Macce	Elbereth Kyky	
Elbereth Kiitos	Clear	B	Fidelis Duuri	Elbereth Kaisa at Arktinen	
Elbereth Kimmi	Clear	D	Osly Des Chevaloupsgreg	Elbereth Toive	
Elbereth Lumiukko	Clear	D	Fidelis Duuri	Elbereth Kaisa at Arktinen	
Elbereth Maunu	Clear	D	Fidelis Duuri	Elbereth Kaisa at Arktinen	
Elbereth Matkamies	Clear	D	Lecibsin Macce	Elbereth Kyky	
Elbereth Mikko	Clear	D	Lecibsin Hapmi	Elbereth Toive	
Elbereth Myssy Joins Bridus	Clear	B	Lecibsin Kepponen	Lumiturpa Mamman Mamo	
Elbereth Onnekas for Infindingo	Clear	B	Elbereth Runo in Bernavia	Lumiturpa Pigga at Elbereth	
Elbereth Onni	Clear	D	Fidelis Duuri	Elbereth Kaisa at Arktinen	
Elbereth Kaisa	Clear	B	Lecibsin Kultakuono	Elbereth Toive	
Elbereth Tiia	Clear	B	Lumiturpa Otso	Elbereth Taru at Pavoskas	
Glenchess Anikka	Clear	B	Glenchess Vaeltaja	Lumiturpa Pakkanen of Glenchess	
Glenchess Iloas	Clear	B	Lapinlumon Elamanilo	Terhakan Unnu Leenu at Glenchess	
Glenchess Nightwish for Arianrhod	Clear	B	Oberitz Oivallus	Terhakan Unnu Leenu at Glenchess	
Glenchess Nulikka	Clear	B	Oberitz Oivallu	Terhakan Unnu Leenu at Glenchess	
Glenchess Revontuli	Clear	D	Himmilriks Mahti-joiku of Glenchess	Lumiturpa Seitä of Glenchess	
Glenchess Vaeltaja	Clear	D	Chelville Armas of Honeybears	Glenchess Glenchess Haluan Voittaa	
Helsinki-Noora Du Domaine D'Arinella Bianca Sambreeze	Clear	B	Sambreeze Nalle Kannattaa	Fandi Fendi Du Domaine D'Arinella Bianca	
Honeybears Lumi Pilvi of Alkantara	Clear	B	Jäkäläkummun Tarmokas	Honeybears Camio	
Infindingo Persikka Tippi	Clear	B	Lapinlumon Kuuraturkki	Infindingo Keksi	
Infindingo Keksi	Clear by heredity	B	Elbereth Kimmi	Elbereth Onnekas for Infindingo	
Infindingo Kultainen	Clear by heredity	D	Elbereth Kimmi	Elbereth Onnekas for Infindingo	
Infindingo Pikkukarhu	Clear by heredity	D	Elbereth Kimmi	Elbereth Onnekas for Infindingo	
Infindingo Reimu Emmi	Clear by heredity	B	Glenchess Iloas	Infindingo Keksi	
Infindingo Reimu Miila	Clear by heredity	B	Glenchess Iloas	Infindingo Keksi	
Infindingo Reimu Tiia	Clear by heredity	B	Glenchess Iloas	Infindingo Keksi	
Infindingo Reimu Mikko	Clear by heredity	D	Glenchess Iloas	Infindingo Keksi	
Infindingo Reimu Klittaa	Clear by heredity	B	Glenchess Iloas	Infindingo Keksi	
Infindingo Kimi	Clear by heredity	D	Glenchess Iloas	Infindingo Keksi	
Infindingo Seppo	Clear by heredity	D	Elbereth Kimmi	Elbereth Onnekas for Infindingo	
Infindingo Taito	Clear by heredity	D	Elbereth Kimmi	Elbereth Onnekas for Infindingo	
Infindingo Taika	Clear by heredity	B	Elbereth Kimmi	Elbereth Onnekas for Infindingo	
Infindingo Tuuri	Clear by heredity	D	Elbereth Kimmi	Elbereth Onnekas for Infindingo	
Iolair Katja	Clear	B	Chelville Tapio	Orso-farm Rosmariini	
Lapinlumon Beana at Iolair	Clear	B	Lapinlumon Pakkasherra	Lapinlumon Kaunis Kamma	
Lapinlumon Halla	Clear	B	Jäkäläkummun Barfe-Beidna	Shacal Tahmatassu	
Lapinlumon Ziiku at Iolair	Clear	B	Lapinlumon Noaidi	Lappejentas Hertta	
Lappizaros Glazir	Clear	D	Fjällfarmens Alaska	Lappizaros Amiza	
Lapprikets Boidheach	Clear	B	Lap-sak Hanslankari	Riskatsurkan Birts Acca	
Lapptoppens Herax	Clear	D	Ikimuiston Kapteeni Klutz	Raiddoka Lelu	
Lappvikens Lina	Clear	B	Lapplyans King of Mustang	Elbereth Unikko at Lappvikens	
Lappvikens Mika	Clear	D	Lapplyans King of Mustang	Elbereth Unikko at Lappvikens	
Lecibsin Salo	Clear	D	Lecibsin Kepponen	Lecibsin Suvituli	
Lumiturpa Mamman Mamo	Clear	B	Kultasilmä Kieppi	Lumiturpa Missi	
Oberitz Rumpali	Clear	D	Chelville Tapio	Oberitz Marimekko	
Sambreeze Luna	Clear	B	Millermead Merirosva	Sambreeze Ruskea Nauha	
Samejantans Iwaho of Thirstleglen	Carrier	D	Staalon Davy	Samejantans Birka	
Starlapps Jolas	Clear	B	Lapinlumon Karvajalka of Honeybears	Elbereth Ilo at Starlapps	
TabanyaRuu Fia	Clear	B	Cantavia Leijonmieli	TabanyaRuu Peppi	
TabanyaRuu Hyppia	Clear	B	Elbereth Osmo	TabanyaRuu Sisko	
TabanyaRuu Kaija	Clear	B	Cantavia Leijonmieli	TabanyaRuu Peppi	
TabanyaRuu Peppi	Clear	B	Elbereth Osmo	TabanyaRuu Sisko	
TabanyaRuu Valio	Clear	D	Cantavia Leijonmieli	TabanyaRuu Peppi	
Thistleghen Chiquitita	Clear	B	Samejantans Iwaho of Thirstleglen	Lapprikets Boidheach	
Tuulikki Brynnja	Clear	B	Aulis	Lapinlumon Pohjantähti	