



MAR20240239

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DNA Certificate

Accordant International Pigeon Panel by ISAG

Certificate issued on March 19, 2024 in Moen, Belgium
Certificate updated March 19, 2024

The authenticity and updates of this certificate can be verified on "http://www.pigen.be"
This certificate¹ ensures parentage authenticity of pigeon BE23-5039517.

BE23-5039517	BE14-2022358 father Jonker	grandfather
Gender by DNA: Cock Certificate: MAR20240239 Proven by DNA	Quality Genes ³ : DRD4: CCCC LDHA: AB Certificate: APR20180095 Proven by DNA	grandmother
	BE18-5025309 mother Zoë	BE16-2226889 grandfather Kwain
	Certificate: NOV20190598 Proven by DNA	Certificate: FEB20200055 Proven by DNA
		BE14-2022338 grandmother Leda
		Certificate: FEB20200056 Proven by DNA

Ruben Lanckriet

Pascal Lanneau

¹ This certificate is issued based on tests performed on DNA samples to PiGen by accredited veterinarians and/or FCI officials appointed by the persons that confirmed, on the date of DNA sampling, to be the respective owners of the pigeons with the ringnumbers mentioned in this certificate.

² DNA testing is done according to internationally agreed Pigeon Panel and recommendations by ISAG (International Society of Animal Genetics). The testing labs are certified according NEN-EN-ISO 9001. The probability of exclusion (PE) of this parentage verification is higher than 99,9%.

³ The following DNA markers are scientifically associated with racing performance:
LDHA is a gene for a lactate dehydrogenase enzyme.
DRD4 or dopamine receptor 4 gene is an indicator for character traits.
CRY1 or cryptochrome 1 gene codes for a protein in the retina of the eye.
Calcium/calmodulin-dependent serine protein kinase (CASK) is a gene important for synapse formation in the brain and the nerve-muscle connection.
LDL Receptor related Protein 8 (LRP8) is a gene important for the growth of the hippocampus inside the brain.
The hippocampus is important for recognition of geographic structures and navigational abilities.
Glutathion-diSulfide-Reductase (GSR) is a protein that is associated with magnetoreception abilities.

