

## **DNA Certificate**

BE20-3122106

Proven by DNA

Ruben Lanckriet

Certificate: NOV20230569

## **Accordant International Pigeon Panel by ISAG**

Certificate issued on November 17, 2023 in Moen, Belgium Certificate updated November 17, 2023

The authenticity and updates of this certificate can be verified on "http://www.pigen.be" This certificate<sup>1</sup> ensures parentage authenticity of pigeon BE20-3122106.



Scan this QR code to verify this certificate on "http://www.pigen.be"

发送此QR码以在网址 www.pigen.be 上验证此证书

grandfather

	The same	
BE15-3142138	father	
Certificate: JUL20200119 Proven by DNA	8	grandmother
		grandfather
BE10-3172518	mother	
Certificate: JUL20200118 Proven by DNA		
		grandmother

<sup>1</sup> 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.

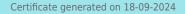
Pascal Lanneau

<sup>3</sup> 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.



Quality

www piger

 $<sup>^2</sup>$  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%.