

DNA Certificate

BE21-4153292

Proven by DNA

Gender by DNA: Hen Certificate: AUG20210187

Accordant International Pigeon Panel by ISAG

Certificate issued on August 20, 2021 in Moen, Belgium Certificate updated March 29, 2024

The authenticity and updates of this certificate can be verified on "http://www.pigen.be" This certificate¹ ensures parentage authenticity of pigeon BE21-4153292.

> BE1 Sch Cer Pro



G20210187

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

2 2126121	fath an		
.3-3126131 umi junior	father		
tificate: SEP20150158 ven by DNA		BE12-3111204 Gouda	grandmother
		Certificate: FEB20140 Proven by DNA)205
			grandfather
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Ruben Lanckriet

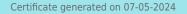
Pascal Lanneau

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.



Quality

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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%.