



Partner Company of FCI



NOV20190750

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DNA Certificaat

Accordant International Pigeon Panel by ISAG

Certificaat op november 21, 2019 uitgevaardigd in Moen, België
Certificate updated november 21, 2019

The authenticity and updates of this certificate can be verified on "http://www.pigen.be"
This certificate¹ ensures parentage authenticity of pigeon BE18-4070995.

BE18-4070995	Certificaat: NOV20190750 Proven by DNA	BE17-4077403 Charlie vader Certificaat: OCT20180167 Proven by DNA	BE16-4126201 Mother Charlie grootmoeder Quality Genes ³ : DRD4: CTCC LDHA: AB Certificaat: NOV20180382 Proven by DNA	BE13-4176528 Wittekop Chipso grootvader Certificaat: NOV20180381 Proven by DNA
BE14-2230972 Boxster moeder Quality Genes ³ : DRD4: CCCT LDHA: AA Certificaat: MAY20170099 Proven by DNA	BE13-6143659 Lieve grootmoeder Quality Genes ³ : DRD4: CCCT LDHA: AB Certificaat: SEP20150162 Proven by DNA	BE13-4176517 Wacko Freddy grootvader Quality Genes ³ : DRD4: CCCC LDHA: AB Certificaat: SEP20150159 Proven by DNA	BE16-4126201 Mother Charlie grootmoeder Quality Genes ³ : DRD4: CTCC LDHA: AB Certificaat: NOV20180382 Proven by DNA	BE13-4176528 Wittekop Chipso grootvader Certificaat: NOV20180381 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.

