



DNA Certificate

Accordant International Pigeon Panel by ISAG

Certificate issued on May 11, 2017 in Moen, Belgium

Certificate updated December 09, 2017



MAY20170099

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

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The authenticity and updates of this certificate can be verified on "http://www.pigen.be"
This certificate¹ ensures parentage authenticity of pigeon BE14-2230972.

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|--|---|--|
| BE14-2230972 Boxster Quality Genes ³ : DRD4: CCCT LDHA: AA Certificate: MAY20170099 Proven by DNA | BE13-4176517 Wacko Freddy Quality Genes ³ : DRD4: CCCC LDHA: AB Certificate: SEP20150159 Proven by DNA | BE11-5170088 Porsche 088 Certificate: OCT20150035 Proven by DNA |
| | BE13-6143659 Lieve Quality Genes ³ : DRD4: CCCT LDHA: AB Certificate: SEP20150162 Proven by DNA | BE12-4163422 Blue Ace Freddy'ke Quality Genes ³ : LDHA: AB Certificate: JUL20130340 Proven by DNA |
| | | BE03-6460062 Gladiator Certificate: SEP20130026 Proven by DNA |
| | | BE03-6460053 Schoon Witpen Willy Certificate: SEP20130036 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.

