Partner Company of FCI

# DNA Certificate

## Accordant International Pigeon Panel by ISAG

Certificate issued on September 30, 2013 in Moen, Belgium
Certificate updated September 30, 2013

**SEP20131133**

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

The authenticity and updates of this certificate can be verified on "http://www.pigen.be"
This certificate[1] ensures there exists a DNA Profile of pigeon DV0262-08-99.

DV0262-08-99
Astina

Certificate: SEP20131133
Proven by DNA

father

mother

grandfather

grandmother

grandfather

grandmother

Ruben Lanckriet

Pascal Lanneau

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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%.

[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.