

REFERENCE NO.: 2013-00243**OWNER:**

PUJOLS REGIS

LAFON

33840 ESCAUDES

FRANCE

NAME/LABEL:

ENJOY'S

SPECIES: Dog**BREED:** Australian Shephard**SEX:** Female**MICROCHIP NO.:** 250269700197229**TATOO NO.:** Not provided**PEDIGREE NO.:** 16729/2940**SAMPLE:** Buccal swab

Genetic report

REQUESTED TEST: Collie eye anomaly (CEA)**RESULT:** Carrier**ALLELE STATE:** mut/wt**METHOD:** rt-PCR**COMMENT :**

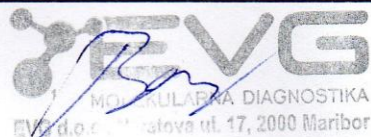
Regarding to the presence of tested mutation animals are classified in three groups:

- Affected (mut/mut) - both alleles carry mutations, disease is clinically manifested
- Carrier (mut/wt) - one of two alleles carries a mutation, disease is not clinically manifested
- Clear (wt/wt) - mutation is not present, normal genotype

For each group different breeding strategies should be followed. Breeding of affected and carrier animals should be avoided. If particularly valuable animal is classified as affected it should be bred only with clear animal. In such a case all first generation siblings will be carriers. If a carrier is bred with clear animal, 50% of siblings are expected to be clear. In case two carriers are bred, 25% of siblings are expected to be clear and 50% are expected to be carriers. However, 25% of siblings are expected to be affected, therefore such breeding practice is discouraged. Genetic test should be done for all animals where genotype cannot be inferred from parent genotypes or if certificate of genetic status is required.

For additional information we are available on our phone during working days between 9 a.m. and 3 p.m. or e-mail.

Signature:

**EVG**
MOLEKULARNA DIAGNOSTIKA
Evropski trg 1, 2000 Maribor

Maribor, 8.3.2013