

# "KADU"

## KADU DOS PARDAIS



DNA Test Report

Test Date: March 11th, 2020

[embk.me/kadudospardais](http://embk.me/kadudospardais)

### BORDER COLLIE



The Border Collie was bred in the border country between England and Scotland as a herding dog to control sheep. They were highly sought after dogs by local shepherds, who were fond of their energetic and intelligent nature. Sheepdog trials began in the late 1800s, in which this breed of sheepdog impressed and was bred further, developing the Border Collie we recognize today. Today the Border Collie is considered one of, if not the, best sheepherding dogs. The AKC recognized the Border Collie as an official breed in 1995. Border Collies have a high stamina level, matched by their desire to be kept busy. While being a loyal companion dog, the Border Collie mainly thrives on activity. If not given sufficient exercise, Border Collies can be difficult house dogs, directing their energy on less productive activities such as chasing anything that moves or digging. This work-oriented breed requires a high level of both physical and mental stimulation. Border Collies generally have a black and white double coat that sheds moderately. As you can imagine, this breed excels at many sports including obedience, agility and tracking. The Border Collie ranks as the 38th most popular breed.

#### Fun Fact

Border Collies are known for possessing an incredibly intense stare used to intimidate livestock.

#### RELATED BREEDS



**Bearded Collie**  
Cousin breed



**Collie**  
Cousin breed



**Australian Shepherd**  
Cousin breed



**Shetland Sheepdog**  
Cousin breed



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### BREED-RELEVANT CONDITIONS TESTED



Kadu did not have the variants that we tested for, that are relevant to his breed:

- ✓ MDR1 Drug Sensitivity (MDR1)
- ✓ Trapped Neutrophil Syndrome (VPS13B)
- ✓ Collie Eye Anomaly, Choroidal Hypoplasia, CEA (NHEJ1)
- ✓ Goniodysgenesis and Glaucoma (OLFM3)
- ✓ Primary Lens Luxation (ADAMTS17)
- ✓ Neuronal Ceroid Lipofuscinosis 1, NCL 5 (CLN5 Border Collie Variant)
- ✓ Myotonia Congenita (CLCN1 Exon 23)
- ✓ Imlerslund-Grasbeck Syndrome, Selective Cobalamin Malabsorption (CUBN Exon 53)

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### INBREEDING AND DIVERSITY

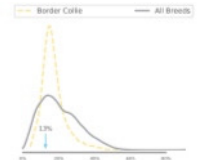
#### CATEGORY

#### RESULT

##### Coefficient Of Inbreeding

13%

Our genetic COI measures the proportion of your dog's genome where the genes on the mother's side are identical by descent to those on the father's side.

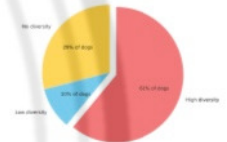


##### MHC Class II - DLA DRB1

#### High Diversity

A Dog Leukocyte Antigen (DLA) gene, DRB1 encodes a major histocompatibility complex (MHC) protein involved in the immune response. Some studies have shown associations between certain DRB1 haplotypes and autoimmune diseases such as Addison's disease (hypoadrenocorticism) in certain dog breeds, but these findings have yet to be scientifically validated.

How common is this amount of diversity in purebreds:

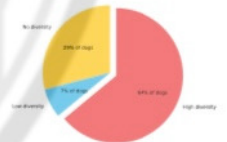


##### MHC Class II - DLA DQA1 and DQB1

#### High Diversity

DQA1 and DQB1 are two tightly linked DLA genes that code for MHC proteins involved in the immune response. A number of studies have shown correlations of DQA-DQB1 haplotypes and certain autoimmune diseases; however, these have not yet been scientifically validated.

How common is this amount of diversity in purebreds:



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### HEALTH REPORT

#### How to interpret Kadu's genetic health results:

If Kadu inherited any of the variants that we tested, they will be listed at the top of the Health Report section, along with a description of how to interpret this result. We also include all of the variants that we tested Kadu for that we did not detect the risk variant for.

#### A genetic test is not a diagnosis

This genetic test does not diagnose a disease. Please talk to your vet about your dog's genetic results, or if you think that your pet may have a health condition or disease.



#### Good news!

Kadu is not at increased risk for the genetic health conditions that Embark tests.

Breed-Relevant Genetic Conditions

8 variants not detected



Additional Genetic Conditions

181 variants not detected



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