

# Homologies between IPA (Invertebrate Primitive Antibody Protein from Ophiocomina Nigra) and Human IGK Protein

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## Introduction

The IGK@ protein [Homo sapiens] graphic by [NCBI](#)

GenBank: AAH30813.1 is shown below:

The AAH 30813.1 protein has two immunoglobulin domains: 1 and 2: V (Variable) and C (Constant)

1. Region 1

**Region:** IgV\_L\_kappa (Table 1)

**Comment:** Immunoglobulin (Ig) light chain, kappa type, Variable (V) domain

**Location:** 22...126

Length 105 aa

2. Region 2

**Region:** IgC\_L (Table 1)

**Comment :** Immunoglobulin constant domain Location : 132...231

Length 100 aa

## Results

Results are summarized in Table 1 as shown below:

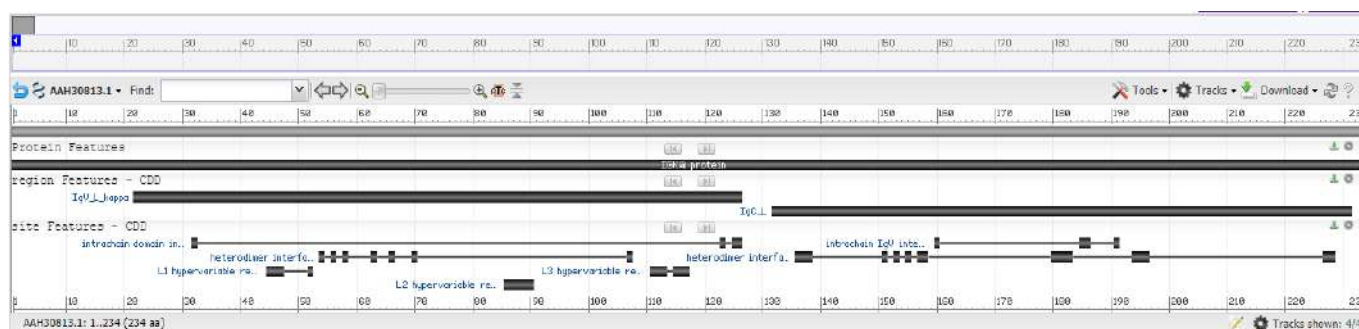


Table 1: Homologies with 100% identities between IPA Protein and Human IGK Protein

## Conclusion

It appears clearly that 100% identities occur between the Invertebrate Primitive Antibody (IPA) Protein from Ophiocomina nigra and the Human IGK Protein according to the Table 1. A primitive Antibody exists in Invertebrates it is new and fundamental when many people contest our data [1,2].

## References

- 1) Leclerc M. Amer. J. Immunol. 2013;9(3):94-5.
- 2) Locker E.S. Immunol Rev. 2004;198:10-24.

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