

Datasheet for ABIN7548606  
**IQCG Protein (AA 1-443) (His tag)**



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## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | IQCG  |
| Protein Characteristics:      | AA 1-443                                    |
| Origin:                       | Human                                       |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This IQCG protein is labelled with His tag. |

## Product Details

|              |   |
|--------------|---|
| Purpose:     | Custom-made recombinant IQCG Protein expressed in mammalian cells.  |
| Sequence:    | MEEDSLEDSN LPPKVWHSEM TVSVTGEPPS TVEEEGIPKE TDIEIPEIP ETLEPLSLPD<br>VLRISAVLED TTDQLSILNY IMPVQYEGRQ SICVKSREM N LEGTNLDKLP MASTITKIPS<br>PLITEEGPNL PEIRHRGRFA VEFNKMQLV FKKPTRQTIM TTETLKKIQI DRQFFSDVIA<br>DTIKELQDSA TYNLLQALS KERENKMHFY DIIAREEKGR KQISLQKQL INVKKEWQFE<br>VQSQNEYIAN LKDQLQEMKA KSNLENRYMK TNELQIAQT QKKNRTEEL LVEEIEKLRM<br>KTEEEARTHT EIEMFLRKEQ QKLEERLEFW MEKYDKDTEM KQNELNALKA TKASDLAHLQ<br>DLAKMIREYE QVIIEDRIEK ERSKKKVKQD LLELKSVIKL QAWWRGTMIR REIGGFKMPK<br>DKVDSKDSKG KGKGKDKRRG KKK <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b> |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.   |

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

IQCG

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### Alternative Name:

IQCG ([IQCG Products](#))

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### Background:

Dynein regulatory complex protein 9 (IQ domain-containing protein G),FUNCTION: Component of the nexin-dynein regulatory complex (N-DRC), a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. Binds calmodulin when cellular Ca(2+) levels are low and thereby contributes to the regulation of calcium and calmodulin-dependent protein kinase IV (CAMK4) activity, contributes to the regulation of CAMK4 signaling cascades. Required for normal axoneme assembly in sperm flagella, normal sperm tail formation and for male fertility. {ECO:0000250|UniProtKB:A3KQH2, ECO:0000250|UniProtKB:A8HQ54, ECO:0000250|UniProtKB:Q80W32}.

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### Molecular Weight:

51.9 kDa

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### UniProt:

[Q9H095](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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