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Datasheet for ABIN7558231  
**DOC2A Protein (AA 1-405) (His tag)**

## Overview

Quantity:	1 mg
Target:	DOC2A
Protein Characteristics:	AA 1-405
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DOC2A protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Doc2a Protein expressed in mammalian cells.
Sequence:	MRGRRGDRMT INIQEHMAIN VCPGPIRPIR QISDYFPRRG PGPEGGGGGG GTGCGEAPAH LAPLALAPPA ALLGATTPDD GAEVDSYDSD DTTALGTLEF DLLYDQASCM LHCRILRAKG LKPMDFNGLA DPYVKLHLLP GACKANKLKT KTQRNTLNPV WNEELTYSGI TDDITHKVL RISVCDEDKL SHNEFIGEIR VPLRRLKPSQ KKHFNICLER QVPLPSPSSM SAALRGISCY LKELEQAEQG PGLLEERGRI LLSLSYSSRR HGLLVGIVRC AHLAAMDVNG YSDPYVKTYL RPDVKKSKH KTCVKKKTLN PEFNEEFFYE IELSTLATKT LEVTVWDYDI GKSNDFIGGV SLGPGARGEQ QKHWNDCLHQ PDTALERWHT LTSELPPAAG AYPLA <b>Sequence without tag.</b> <b>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:

DOC2A

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### Alternative Name:

Doc2a ([DOC2A Products](#))

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### Background:

Double C2-like domain-containing protein alpha (Doc2-alpha),FUNCTION: Calcium sensor which most probably regulates fusion of vesicles with membranes. Binds calcium and phospholipids. May be involved in calcium dependent neurotransmitter release through the interaction with UNC13A. May be involved in calcium-dependent spontaneous release of neurotransmitter in absence of action potentials in neuronal cells. Regulates Ca(2+)-dependent secretory lysosome exocytosis in mast cells. {ECO:0000269|PubMed:18354201, ECO:0000269|PubMed:20150444}.

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### Molecular Weight:

44.6 kDa

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### UniProt:

[Q7TNF0](#)

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### Pathways:

[Synaptic Vesicle Exocytosis](#)

## 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

## Application Details

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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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