

Datasheet for ABIN7555110  
**OCA2 Protein (AA 1-838) (His tag)**



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## Overview

Quantity:	1 mg
Target:	OCA2
Protein Characteristics:	AA 1-838
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OCA2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant OCA2 Protein expressed in mammalian cells.
Sequence:	<p>MHLEGRDGRR YPGAPAVELL QTSVPSGLAE LVAGKRRLPR GAGGADPSHS CPRGAAGQSS</p> <p>WAPAGQEFAS FLTQGRSHSS LPQMSSSRSK DSCFTENTPL LRNSLQEKGS RCIPVYHPEF</p> <p>ITAEESWEDS SADWERRYLL SREVSGLSAS ASSEKGDLLD SPHIRLRLSK LRRCVQWLKV</p> <p>MGLFAFVVLC SILFSLYPDQ GKLWQLLALS PLENYSVNLS SHVDSTLLQV DLAGALVASG</p> <p>PSRPGREEHI VVELTQADAL GSRWRRPQQV THNWTVYLNPRRSEHSVMSR TFEVLTRETV</p> <p>SISIRASLQQ TQAVPLLMAH QYLRGSVETQ VTIATAILAG VYALIIFEIV HRTLAAMLGS</p> <p>LAALAALAVI GDRPSLTHVW EWIDFETLAL LFGMMILVAI FSETGFFDYC AVKAYRLSRG</p> <p>RVWAMIIMLC LIAAVLSAFL DNVTTMLLFT PVTIRLCEVL NLDPRQVLIA EVIFTNIGGA</p> <p>ATAIGDPPNV IIVSNQELRK MGLDFAGFTA HMFICLVL LVCFPLRL YWNRKLYNKE</p> <p>PSEIVELKHE IHVWRLTAQR ISPASREETA VRRLGKVL ALEHLLARRL HTFHRQISQE</p> <p>DKNWETNIQE LQKKHRISDG ILLAKCLTVL GFVIFMFFLN SFVPGIHLDL GWIAILGAIW</p> <p>LLILADIHDF EILHRVEWA TLLFFAALFV LMEALAHHL IEYVGEQTAL LIKMVPPEQR</p>

## Product Details

LIAAIVLVVW VSALASSLID NIPFTATMIP VLLNLSHDPE VGLPAPPLMY ALAFGACLGG  
NGTLIGASAN VVCAGIAEQH GYGFSFMEFF RLGFPMMVVS CTVGMCYLLV AHVVVGWN

**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.**

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.

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.

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

Grade: custom-made

## Target Details

Target: OCA2

Alternative Name: OCA2 ([OCA2 Products](#))

Target Type: Viral Protein

Background: P protein (Melanocyte-specific transporter protein) (Pink-eyed dilution protein homolog),FUNCTION: Contributes to a melanosome-specific anion (chloride) current that modulates melanosomal pH for optimal tyrosinase activity required for melanogenesis and the melanosome maturation (PubMed:25513726, PubMed:11310796, PubMed:15262401,

## Target Details

PubMed:22234890). One of the components of the mammalian pigmentary system (PubMed:15262401, PubMed:18252222, PubMed:7601462). May serve as a key control point at which ethnic skin color variation is determined. Major determinant of brown and/or blue eye color (PubMed:15262401, PubMed:18252222, PubMed:7601462). Seems to regulate the post-translational processing of tyrosinase, which catalyzes the limiting reaction in melanin synthesis (By similarity). {ECO:0000250|UniProtKB:Q62052, ECO:0000269|PubMed:11310796, ECO:0000269|PubMed:15262401, ECO:0000269|PubMed:18252222, ECO:0000269|PubMed:22234890, ECO:0000269|PubMed:25513726, ECO:0000269|PubMed:7601462}.

Molecular Weight: 92.9 kDa

UniProt: [Q04671](#)

## Application Details

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.

Restrictions: For Research Use only

## Handling

Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months