

Datasheet for ABIN3122769

**ORC2 Protein (AA 1-576) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	ORC2
Protein Characteristics:	AA 1-576
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ORC2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence: MSTLQLKETK VPSVQFVGDD DVLSHILDRE GGTKLKKEKA QLLVNPQKVI KKADCELEKS  
DLEVLEDQNY VKVLGRNIQE SLGNGSAKDG RNKVVSFQQR KHPEEMTKLA LELAKTSGKK  
DPLDSNDPEI TKNIAQKSKG HSTSEKAPLV NNNKTEFLST QPHNLRKRRII ASRSHYDSES  
EYSASSEDD EEATKDEEED TNVARLSQKS QGQNRLLPAP VSKETLPKKK KRDKASDLVE  
EYFEAHSSSK VLTSDRTLQR LRRARVDQKT LHNLLRKFPV SFSAEIERLN QQHEKLFHKW  
MLQLHLGFNI VLYGLGSKRD LLEKFRITML QDSIHVVING YFPGVSVKSI LNSITEDVLS  
HVGTFQSVLD QRDWIINRFK EDSSLELFLI IHNLDSQMLR GDNSQQILGQ LSSLHNVYLI  
ASIDHLNAPL MWDHAKQSLY NWLWYETTTY SPYTEETSYE NSLLVKQSGS LPLSSLIHVL  
RSLTPNARGI FRLLMKFQLD NQDSPSYIGL SFQDFYQPCR EAFLVNSDLT LRAQLTEFRD  
HKLIRTKKGT DGVEYLLIPV DSGILADFLE KEEEEEA

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

## Product Details

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Orc2 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in bacterial culture:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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### Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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### Sterility:

0.22 µm filtered

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### Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

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### Grade:

Crystallography grade

## Target Details

Target:	ORC2
Alternative Name:	Orc2 ( <a href="#">ORC2 Products</a> )
Background:	Component of the origin recognition complex (ORC) that binds origins of replication. DNA-binding is ATP-dependent. The specific DNA sequences that define origins of replication have not been identified yet. ORC is required to assemble the pre-replication complex necessary to initiate DNA replication (By similarity). Binds histone H3 and H4 trimethylation marks H3K9me3, H3K20me3 and H4K27me3. Stabilizes LRWD1, by protecting it from ubiquitin-mediated proteasomal degradation. Also stabilizes ORC3 (By similarity). {ECO:0000250}.
Molecular Weight:	66.8 kDa Including tag.
UniProt:	<a href="#">Q60862</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process