

Datasheet for ABIN7563562  
**EYA1 Protein (AA 1-591) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	EYA1
Protein Characteristics:	AA 1-591
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EYA1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Eya1 Protein expressed in mammalian cells.
Sequence:	MEMQDLTSPH SRLSGSSESP SGPKLDSSHI NSTSMTPNGT EVKTEPMSSS EIASTAADGS LDSFSGSALG SSSFSRPAH PFSPQIYPS KSYPHILPTP SSQTMAAYGQ TQFTTGMQQA TAYATYPQPG QPYGISSYGA LWAGIKTESG LSQSQSPGQT GFLSYGTSFG TPQPGQAPYS YMQMGSSFTT SSGLYSGNNS LTNSSGFNNS QQDYPSYPGF GQQQYAQYYN SSPYPAHYMT SSNTSPTTPS TNATYQLQEP PSGVTSQAVT DPTAEYSTIH SPSTPIKETD SERLRRGSDG KSRGRGRRNN NPSPPDSDL ERVFIWDLDE TIVFHSLLT GSYANRYGRD PPTSVSLLGLR MEEMIFNLAD THLFFNDLEE CDQVHIDDVS SDDNGQDLST YNFGTDGFPA AATSANLCLA TGVRGGVDWM RKLAFRYRRV KEIYNTYKNN VGLLGPAKR EAWLQLRAEI EALTDSWLTL ALKALSLIHS RTNCVNILVT TTQLIPALAK VLLYGLGIVF PIENIYSATK IGKESCFERI IQRFGRKVVY VVIGDGVEEE QGAKKHAMPF WRVSSHSDLM ALHHALELEY L <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</b>

## Product Details

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### **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

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Target: EYA1

Alternative Name: Eya1 ([EYA1 Products](#))

Background: Eyes absent homolog 1 (EC 3.1.3.16) (EC 3.1.3.48),FUNCTION: Functions both as protein phosphatase and as transcriptional coactivator for SIX1, and probably also for SIX2, SIX4 and SIX5 (PubMed:10490620). Tyrosine phosphatase that dephosphorylates 'Tyr-142' of histone H2AX (H2AXY142ph) and promotes efficient DNA repair via the recruitment of DNA repair complexes containing MDC1. 'Tyr-142' phosphorylation of histone H2AX plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress (PubMed:19234442). Its function as histone phosphatase may contribute to its function in transcription regulation during organogenesis (PubMed:14628042). Has also phosphatase activity with proteins phosphorylated on Ser and Thr residues (in vitro). Required for normal embryonic development of the craniofacial and trunk skeleton, kidneys and ears

## Target Details

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(PubMed:10471511). Together with SIX1, it plays an important role in hypaxial muscle development, in this it is functionally redundant with EYA2 (PubMed:17098221).  
{ECO:0000269|PubMed:10471511, ECO:0000269|PubMed:10490620,  
ECO:0000269|PubMed:14628042, ECO:0000269|PubMed:17098221,  
ECO:0000269|PubMed:19234442}.

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Molecular Weight: 64.3 kDa

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UniProt: [P97767](#)

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Pathways: [Sensory Perception of Sound, Positive Regulation of Response to DNA Damage Stimulus](#)

## 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

## 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