Datasheet for ABIN7563555

# EYA3 Protein (AA 1-510) (His tag)

Go to Product page

## Overview

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| Quantity: | 1 mg |
| Target: | EYA3 |
| Protein Characteristics: | AA 1-510 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This EYA3 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant Eya3 Protein expressed in mammalian cells. |
| Sequence: | MQEPREQTLS QVNNPDASDE KPETSSLASN LSMSEEIMTC TDYIPRSSND YTSQMYSAKP YAHILSVPVS ETTYPGQTQY QTLQQSQPYA VYPQATQTYG LPPFASSTNA SLIPTSSAIA NIPAAAVASI SNQDYPTYTI LGQNQYQACY PSSSFGVTGQ TNSDAETTTL AATTYQTEKP SAMVPAPATQ RLPSDSSASP PLSQTTPNKD ADDQARKNMT VKNRGKRKAD ASSSQDSELE RVFLWDLDET IIIFHSLLTG SYAQKYGKDP TVVIGSGLTM EEMIFEVADT HLFFNDLEEC DQVHVEDVAS DDNGQDLSNY SFSTDGFSGS GGSGSHGSSV GVQGGVDWMR KLAFRYRKVR EIYDKHKSNV GGLLSPQRKE ALQRLRAEIE VLTDSWLGTA LKSLLLIQSR KNCANVLITT TQLVPALAKV LLYGLGEIFP IENIYSATKI GKESCFERIV SRFGKKVTYV VIGDGRDEEI AAKQHNMPFW RITNHGDLVS LHQALELDFL **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.** |

## Product Details

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| 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:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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: | EYA3 |
| Alternative Name: | Eya3 (EYA3 Products) |
| Background: | Eyes absent homolog 3 (EC 3.1.3.48),FUNCTION: Tyrosine phosphatase that specifically dephosphorylates 'Tyr-142' of histone H2AX (H2AXY142ph). '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. Promotes efficient DNA repair by dephosphorylating H2AX, promoting the recruitment of DNA repair complexes containing MDC1 (By similarity). Its function as histone phosphatase probably explains its role in transcription regulation during organogenesis. The phosphatase activity has been shown in vitro. Coactivates SIX1. Seems to coactivate SIX2, SIX4 and SIX5. The repression of precursor cell proliferation in myoblasts by SIX1 is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex and seems to be dependent on EYA3 phosphatase activity. May be involved in development of the eye. May play a role in mediating the induction and |

## Target Details

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| | differentiation of cranial placodes. {ECO:0000250\|UniProtKB:Q99504, ECO:0000269\|PubMed:10490620}. |
| Molecular Weight: | 56.0 kDa |
| UniProt: | P97480 |
| Pathways: | 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. |
| Restrictions: | For Research Use only |

## Handling

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| 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 |

 