EYA3 cDNA Clone – Eyes Absent Homolog 3 (Drosophila) (Human)

PRODUCT OVERVIEW

Product Name	EYA3, cDNA Clone
Full Product Name	EYA3 cDNA Clone
Product Gene Name	EYA3 cdna clone
Sequence	ATGGAAGAAG AGCAAGATTT ACCAGAGCAA CCAGTGAAAA AAGCCAAGAT GCAGGAATCA GGAGAGCAAA CTATAAGTCA AGTAAGCAAT CCAGATGTCA GTGATCAGAA GCCTGAAACA TCAAGCCTTG CTTCAAACCT TCCCATGTCA GAGGAAATTA TGACATGCAC CGATTACATC CCTCGCTCAT CCAATGATTA TACCTCACAA ATGTATTCTG CAAAACCTTA TGCACATATT CTCTCAGTTC CTGTTTCGGA AACTGCTTAC CCTGGACAGA CTCAATACCA GACACTACAG CAGACTCAAC CCTATGCTGT CTACCCTCAG GCAACCCAAA CGTATGGACT ACCTCCTTTT GGTGCATTGT GGCCAGGTAT GAAACCTGAA AGTGGTTTAA TTCAGACTCC ATCTCCAAGT CAACACAGTG TTCTTACCTG CACTACAGGG TTAACCACAA GCCAGCCAAG CCCAGCACAT TATTCTTATC CCATTCAAGC TTCAAGCACA AATGCCAGCC TGATATCTAC TTCTTCTACA ATTGCCAATA TTCCAGCAGC AGCAGTAGCC AGCATCTCAA ACCAGGATTA TCCCACCTAT ACTATTCTTG GTCAGAATCA GTACCAGGCC TGCTACCCCA GCTCCAGCTT TGGAGTCACA GGTCAGACTA ACAGTGATGC AGAGAGCACC ACATTAGCAG CAACCACATA CCAGTCGGAG AAGCCTAGTG TCATGGCGCC TGCACCTGCA GCACAGAGAC TTTCCTCTGG AGACCCTTCT ACAAGTCCAT CTTTGTCCCA GACTACACCA AGTAAAGATA CTGATGATCA GTCCAGGAAA AACATGACTA GCAAGAACCG GGGCAAGAGG AAAGCTGATG CCACTTCTTC CCAAGACAGT GAATTAGAAC GGGTATTTCT GTGGGACTTG GATGAAACCA TCATCATCTT CCACTCACTT CTTACTGGAT CCTATGCCCA GAAATATGGA AAGGACCCAA CAGTAGTGAT TGGCTCAGGT TTAACAATGG AAGAAATGAT TTTTGAAGTG GCTGATACTC ATCTATTTTT CAATGACTTA GAGACATAG
Molecular Weight	57,827 Da
OMIM	601655
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for EYA3 cdna clone	MBS1276399 is a cDNA clone targeting EYA3.
Other Notes	Small volumes of EYA3 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EYA3. It may not necessarily be applicable to this product.

NCBI GI #	20810268
NCBI GeneID	2140
NCBI Accession #	BC029500
UniProt Secondary Accession #	O95463; Q8IVX7; Q99813; A8K190; B4DIR7; B4DNZ7
UniProt Related Accession #	Q99504
NCBI Official Full Name	Homo sapiens eyes absent homolog 3 (Drosophila), mRNA
NCBI Official Synonym Full Names	EYA transcriptional coactivator and phosphatase 3
NCBI Official Symbol	EYA3

UniProt Protein Name	Eyes absent homolog 3
Protein Family	Eyes absent
UniProt Gene Name	EYA3
UniProt Entry Name	EYA3_HUMAN
NCBI Protein Information	eyes absent homolog 3
NCBI Summary for EYA3	This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may act as a transcriptional activator and have a role during development. It can act as a mediator of chemoresistance and cell survival in Ewing sarcoma cells, where this gene is up-regulated via a micro-RNA that binds to the 3' UTR of the transcript. A similar protein in mice acts as a transcriptional activator. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2013]
UniProt Comments for EYA3	EYA3: 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. Its function as histone phosphatase probably explains its role in transcription regulation during organogenesis. Coactivates SIX1, and 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. Belongs to the HAD-like hydrolase superfamily. EYA family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protein phosphatase, tyrosine (non-receptor); EC 3.1.3.48 Chromosomal Location of Human Ortholog: 1p36 Cellular Component: centrosome; nucleoplasm; nucleus Molecular Function: protein binding; protein tyrosine phosphatase activity Biological Process: anatomical structure morphogenesis; double-strand break repair; histone dephosphorylation; positive regulation of DNA repair; response to ionizing radiation; visual perception
Research Articles on EYA3	**1.** Benzbromarone metabolites and derivatives function as EYA3 inhibitory anti-angiogenic agents.
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