

Product datasheet for **SC306710**

EYA1 (NM_172059) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA1 (NM_172059) Human Untagged Clone
Tag:	Tag Free
Symbol:	EYA1
Synonyms:	BOP; BOR; BOS1; OFC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC306710 representing NM_172059.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAAATGCAGGATCTAACCAGCCGCATAGCCGTCTGAGTGGTAGTAGTGAATCCCCAGTGGCCCC
AAACTCGGTAACCTCATATAAATAGTAATTCATGACTCCCAATGGCACCGAAGTTAAACAGAGCCA
ATGAGCAGCAGTGAAACAGCTTCAACGACAGCCGACGGGTCTTTAAACAATTTCTCAGGTTCAAGCAATT
GGGAGCAGTAGTTTCAGCCCACGACCAACTCACCAGTTCTCTCCACCACAGATTTACCCTTCCAACAGA
CCATACCCACATATTCTCCCTACCCCTTCTCACAAACTATGGCTGCATATGGGCAAACACAGTTTACC
ACAGGAATGCAACAAGCTACAGCCTATGCCACGTACCCACAGCCAGGACAGCCGTACGGCATTCTCTCA
TATGGCATCAAGACTGAAGGTGGATTGTACAGTCTCAGTCACTGGACAGACAGGATTTCTCAGCTAT
GGCACAAGCTTCACTACCCCTCAACCTGGACAGGCACCATACAGTACCAGATGCAAGGTAGCAGTTTT
ACAACATCATCAGGAATATATACAGGAAATAATCACTCACAAATTCCTCTGGATTTAATAGTTCACAG
CAGGACTATCCGTCTTATCCCAGTTTTGGCCAGGGTCAGTACGCACAGTATTATAACAGCTCACCGTAT
CCAGCACATTATATGACCAGCAGCAACACCAGCCAACGACACCATCCACCAATGCCACTTACCAGCTT
CAAGAACCGCCATCTGGCATCACAGCCAAGCAGTTACAGATCCCACAGCAGAGTACAGCACAAATCCAC
AGCCCACTCAACACCCATTAAGATTTCAGATTCTGATCGATTGCGTTCGAGGTTTCAGATGGGAAATCAGT
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GACTTGGATGAGACAATCATTGTTTTCCACTCCTTGCTTACTGGGTCCTACGCCAACAGATATGGGAGG
GAATGTGACCAAGTCCATATAGATGATGTTTCTCAGATGATAACGGACAGGACCTAAGCACATATAAC
TTTGAACAGATGGCTTCTCTGCTGCAGCAACCAGTGCTAACTTATGTTTGGCAACTGGTGTACGGGGC
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AATAATGTTGGAGGTCTGCTTGGTCCAGCTAAGAGGGAAGCCTGGCTGCAGTTGAGGGCCGAAATTGAA
GCCCTGACCGACTCCTGGTTGACACTGGCCCTGAAAGCACTCTCGCTCATTCACTCCCGGACAAACTGT
GTGAATATTTTAGTAACAATACTCAGCTCATCCAGCATTGGCGAAAAGTCTGCTGTATGGGTTAGGA
ATTGATTTCCAATAGAAAATATTTACAGTGAACATAAATAGGAAAAGAAAGCTGTTTTGAGAGAATA
ATTCAAAGGTTTGAAGAAAAGTGGTGTATGTTGTTATAGGAGATGGTGTAGAAGAAGAACAAGGAGCA
AAAAGCACGCGATGCCCTTCTGGAGGATCTCCAGCCACTCGGACCTCATGGCCCTGCACCATGCCTTG
GAACTGGAGTACCTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map: □

ACCN: NM_172059

Insert Size: 1674 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).</p>
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_172059.3
RefSeq Size:	3650 bp
RefSeq ORF:	1674 bp
Locus ID:	2138
UniProt ID:	Q99502
Cytogenetics:	8q13.3
Protein Families:	Druggable Genome, Phosphatase, Transcription Factors
MW:	60.7 kDa

Gene Summary:

This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may play a role in the developing kidney, branchial arches, eye, and ear. Mutations of this gene have been associated with branchiootorenal dysplasia syndrome, branchiootic syndrome, and sporadic cases of congenital cataracts and ocular anterior segment anomalies. A similar protein in mice can act as a transcriptional activator. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Dec 2013]

Transcript Variant: This variant (EYA1D) differs in the 5' UTR and 5' coding region, uses an alternate in-frame acceptor splice site at an internal exon and lacks an in-frame coding exon compared to variant EYA1C. The resulting shorter isoform (3) lacks two internal protein segments and has a distinct N-terminus, compared to isoform 1.