

## Product datasheet for **SC309058**

### **EYA1 (NM\_000503) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EYA1 (NM_000503) Human Untagged Clone
Tag:	Tag Free
Symbol:	EYA1
Synonyms:	BOP; BOR; BOS1; OFC1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000503 edited  
 GCCACCATGGAATGCAGGATCTAACCAGCCGCATAGCCGTCTGAGTGGTAGTAGTGAA  
 TCCCCAGTGGCCCCAACTCGGTAACCTCATATAAATAGTAATTCATGACTCCCAAT  
 GGCACCGAAGTTAAAACAGAGCCAATGAGCAGCAGTGAACAGCTTCAACGACAGCCGAC  
 GGGTCTTTAAACAATTTCTCAGGTTTCAAGCAATGGGAGCAGTAGTTTCAGCCCACGACCA  
 ACTCACCAGTTCTCTCCACCACAGATTTACCCTTCCAACAGACCATACCCACATATTCTC  
 CCTACCCCTTCCACAAAATATGGCTGCATATGGGCAAACACAGTTTACCACAGGAATG  
 CAACAAGCTACAGCCTATGCCACGTACCACAGCCAGGACAGCCGTACGGCATTTCCTCA  
 TATGGTGCATTGTGGCAGGCATCAAGACTGAAGTGGATTGTCACAGTCTCAGTCACT  
 GGACAGACAGGATTTCTCAGCTATGGCACAAGCTTCAAGTACCCTCAACCTGGACAGGCA  
 CCATACAGCTACCAGATGCAAGGTAGCAGTTTTACAACATCATCAGGAATATACAGGA  
 AATAATCACTCACAATTCCTCTGGATTTAATAGTTCACAGCAGGACTATCCGTCTTAT  
 CCCAGTTTTGGCCAGGTCAGTACGCACAGTATTATAACAGCTCACCGTATCCAGCACAT  
 TATATGACCAGCAGCAACACCAGCCCAACGACACCATCCACCAATGCCACTTACCAGCTT  
 CAAGAACCGCCATCTGGCATCACCAGCCAAGCAGTTACAGATCCCACAGCAGAGTACAGC  
 ACAATCCACAGCCCATCAACACCCATTAAGATTAGATTCTGATCGATTGCGTCGAGGT  
 TCAGATGGGAAATCACGTGGACGGGGCCGAAGAAACAATAATCCTTACCTCCCCAGAT  
 TCTGATCTTGAGAGAGTGTTCATCTGGGACTTGGATGAGACAATCATTGTTTTCCACTCC  
 TTGCTTACTGGGTCTACGCCAACAGATATGGGAGGGATCCACCCACTTCAGTTTCCCTT  
 GGACTGCGAATGGAAGAAATGATTTTCAACTTGGCAGACACACATTTATTTTTAATGAC  
 TTAGAAGAATGTACCAAGTCCATATAGATGATGTTTCTTCAAGATGATAACGGACAGGAC  
 CTAAGCACATATAACTTTGGAACAGATGGCTTCTGCTGCAGCAACCAGTGCTAACTTA  
 TGTTTGGCAACTGGTGTACGGGGCGGTGGACTGGATGAGAAAGTTGGCCTTCCGCTAC  
 AGACGGGTAAAAGAGATCTACAACACCTACAAAATAATGTTGGAGGTCTGCTTGGTCCA  
 GCTAAGAGGGAAGCCTGGCTGCAGTTGAGGGCCGAAATTGAAGCCCTGACCGACTCCTGG  
 TTGACACTGGCCCTGAAAGCACTCTCGCTCATTCACTCCCGGACAAAAGTGTGAATATT  
 TTAGTAACAACACTACTCAGCTCATCCAGCATTGGCGAAAGTCTGCTGTATGGGTTAGGA  
 ATTGTATTTCCAATAGAAAATTTTACAGTGCAACTAAAATAGGAAAAGAAAGCTGTTTT  
 GAGAGAATAATCAAAGTTTGGAAAGAAAAGTGGTGTATGTTGTTATAGGAGATGGTGA  
 GAAGAAGAACAAGGAGCAAAAAGCACGCGATGCCCTTCTGGAGGATCTCCAGCCACTCG  
 GACCTCATGGCCCTGCACCATGCCTTGGAACTGGAGTACCTGTAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000503

**Insert Size:** 2000 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** 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.

**Components:** 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000503.3</a> , <a href="#">NP_000494.2</a>
<b>RefSeq Size:</b>	4326 bp
<b>RefSeq ORF:</b>	1779 bp
<b>Locus ID:</b>	2138
<b>UniProt ID:</b>	<a href="#">Q99502</a>
<b>Cytogenetics:</b>	8q13.3
<b>Domains:</b>	Hydrolase
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (EYA1C) represents the longest transcript and encodes the longest isoform (1). Variants EYA1C and EYA1B encode the same isoform.</p>