

## Product datasheet for **SC306719**

### **EYA4 (NM\_172105) Human Untagged Clone**

#### **Product data:**

|               |                                       |
|---------------|---------------------------------------|
| Product Type: | Expression Plasmids                   |
| Product Name: | EYA4 (NM_172105) Human Untagged Clone |
| Tag:          | Tag Free                              |
| Symbol:       | EYA4                                  |
| Synonyms:     | CMD1J; DFNA10                         |
| Vector:       | <u>pCMV6 series</u>                   |



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|                             |   |
|-----------------------------|---|
| <b>Fully Sequenced ORF:</b> | <p>&gt;NCBI ORF sequence for NM_172105, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGAAGACTCCCAGGATTTAAATGAACAATCAGTAAAGAAAACGTGCACAGAATCAGAT GTTTCACAATCTCAGAATTCCAGGTCTATGGAAATGCAGGACCTAGCAAGTCCTCATACT CTTGTGGAGGTGGTGATACTCCAGGTAGCTCCAAACTGGAAAAATCTAATCTCAGCAGC ACATCAGTTACTACAAATGGGACAGGAGGGGAAAAACATGACTGTTTTAAACACAGCAGAC TGGTTGCTGAGTTGCAACACCCCCTCTTCTGCAACAATGTCTCTTCTTGCAGTCAAAACA GAGCCCTTGAACAGCAGTGAACCACAGCCACGACTGGAGATGGAGCGCTTGACACTTTT ACTGGGTCAGTAATTACAAGTAGTGGCTACAGCCCAGATCAGCAGATCAGTATTCCCCA CAGCTGTATCCTTCCAAGCCCTATCCACACATTCTTCTACACCAGCAGCTCAAACAATG TCTGCCTATGCAGGCCAGACTCAGTATTCGGGGATGCAGCAGCCAGCCGCTACACAGCC TACTCACAGACAGGACAGCCCTACAGCTTGCCCACTTACGATTTGGGTGTGATGTTGCCA GCCATCAAGACAGAGAGTGGACTTCCCAAACCTCAGTCCCCATTACAGAGTGGCTGCCTC AGTTACAGCCCAGGGTTCTACCCACAGCCAGCCAGACACCTTATTCTTACCAAATG CCAGGTTCTAGTTTTGCACCATCATCTACTATTTATGCAATAATTCAGTTTCCAATTCA ACGAATTTTCAGTGGTTCACAACAGGATTATCCATCCTATACAGCCCTTGGCCAAAACAG TATGCACAGTATTATTCAGCATCAACGTATGGAGCGTATATGACATCGAATAACACAGCC GATGGCACACCCTCTTCAACCTCTACTTATCAGTTGCAGGAATCTCTCCAGGACTGACT AACCAACCAGGAGAGTTCGATACCATGCAGAGTCCCTCCACCCATCAAAGATCTTGAT GAGAGAACCTGTAGGAGTTCTGGGTCAAAGTCCAGAGGAAGAGGCCGGAAAAATAATCCC TCCCCGCCTCCTGATAGTGACCTGGAGCGTGTGTTGTCTGGGATTTGGATGAAACCATC ATTGTTTTTCACTCACTGCTCACCGGTCTTATGCACAGAAGTATGGCAAGGATCCCCC ATGGCTGAACCCCTTGGACTCCGCATGGAAGAAATGATTTTTAATCTTGCTGATACTCAT TTGTTTTTAAATGATTTAGAGGAGTGTGATCAAGTTCATATAGATGATGTTTCCTCTGAT GATAATGGGCAGGACTTAAGTACCTACAGTTTTGCAACTGATGGCTTCCATGCAGCTGCA AGTAGTGCAAACCTTTGTTTGCCAAACAGGTGTAAGAGGAGGGTTGACTGGATGAGGAAG TTGGCTTTTCGTTACAGAAGAGTAAAAGAATTATATAACACCTACAAGAACAACGTTGGA GGACTCCTTGGCCCTGCCAAGAGGGATGCCTGGCTACAGTTAAGGGCAGAGATTGAAGGT CTGACAGATTCTGGCTAACAAATGCACTTAAGTCTTTATCAATTATTAGCACTAGGAGT AACTGCATAAATGTCTTGGTAACGACAACCTCAACTGATCCCAGCACTTGGCAAGGTTCTA CTCTATAGTTTAGGAGGTGCTTTCCCCATTGAGAATATTTACAGTGCAACTAAAAATAGGC AAGGAAAGCTGTTTTGAGCGTATAGTGTCCAGATTTGGCCTAACATAACTTATGTTGTG ATTGGAGATGGCCGAGATGAGGAGCATGCCGCTAACAGCACAACATGCCCTTCTGGAGG ATATCCAGTCACTCAGACCTCCTGGCTCTCCACCAAGCACTGGAATTAGAGTATTTGTA </pre> |
| <b>Restriction Sites:</b>   | Please inquire  |
| <b>ACCN:</b>                | NM_172105   |
| <b>OTI Disclaimer:</b>      | 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).  |
| <b>OTI Annotation:</b>      | 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.  |
| <b>Components:</b>          | 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).  |

**Reconstitution Method:**

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\\_172105.1](#), [NP\\_742103.1](#)

**RefSeq Size:** 3077 bp

**RefSeq ORF:** 1920 bp

**Locus ID:** 2070

**UniProt ID:** [O95677](#)

**Cytogenetics:** 6q23.2

**Protein Families:** Druggable Genome, Phosphatase, Transcription Factors

**Gene Summary:** This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may act as a transcriptional activator through its protein phosphatase activity, and it may be important for eye development, and for continued function of the mature organ of Corti. Mutations in this gene are associated with postlingual, progressive, autosomal dominant hearing loss at the deafness, autosomal dominant non-syndromic sensorineural 10 locus. The encoded protein is also a putative oncogene that mediates DNA repair, apoptosis, and innate immunity following DNA damage, cellular damage, and viral attack. Defects in this gene are also associated with dilated cardiomyopathy 1J. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014] Transcript Variant: This variant (4) contains an alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting isoform (d) is the same size but has a region of difference in the C-terminal, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.