

Product datasheet for **SC308997**

EYA4 (NM_004100) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA4 (NM_004100) Human Untagged Clone
Tag:	Tag Free
Symbol:	EYA4
Synonyms:	CMD1J; DFNA10
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004100 edited
GGGAAAAGCCGGGAGTGACGACTGCGGCGGCTGGGCGGCTCTCTCATTTTCTTTTCTT
CTCCTTTCCCTGTGCGAGTCCGGAGTTTGGCTCCTCTCCTTTCTCCTCCCTCCG
GAGCCGGCTTCTCCCTCCGCCCGCTTCTCCCGCTTGTGTACGCTATTTGTTGTGGG
TGGCCGAAGGGGATGTCCTGTTTTACCAGAGGCACAGCGCAAGGGGAACTTCGACAC
TGAAGGAACGAGAATAAATACTTAATTACGGACGCACTGAACCGGGCTGGACAGACA
CTTCGGGAACCCGAGGCGGACCGGGCGACGAGATAGTCATTTTTACTTGAAGGAAGCTGC
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GTCTATGAAAATGCAGGACCTAGCAAGTCTCATACTCTTGTGGAGGTGGTACTCC
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CACAGCCACGACTGGAGATGGAGCGCTTGACACTTTTACTGGGTGAGTAATTACAAGTAG
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GTATTCGGGGATGCAGCAGCCAGCCGTCTACACAGCCTACTCACAGACAGGACAGCCCTA
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TACTTATCAGTTGCAGGAATCTCTCCAGGACTGACTAACCAACCAGGAGAGTTCGATAC
CATGCAGAGTCCCTCCACACCCATCAAAGATCTTGATGAGAGAACCTGTAGGAGTTCTGG
GTCAAAGTCCAGAGGAAGAGGCCGGAAAAATAATCCCTCCCGCCTCTGATAGTGACCT
GGAGCGTGTGTTGTCTGGGATTTGGATGAAACCATCATTGTTTTCACTCACTGCTCAC



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CGGGTCTTATGCACAGAAGTATGGCAAGGATCCCCCATGGCTGTAACCCCTGGACTCCG
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AAACAGAATGTTCACTAGTGTGTTGTCCTTAAAGACAAAGACAGCATTGTGTGTTAC
AATGTAACCTTTGGTTAAATCTCTGTAGATAATGAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_004100
- Insert Size:** 3000 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_004100.2.
- 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).
- 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_004100.2](#), [NP_004091.2](#)

RefSeq Size: 3077 bp

RefSeq ORF: 1920 bp

Locus ID: 2070

UniProt ID: [O95677](#)

Cytogenetics: 6q23.2

Domains: Hydrolase

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 (1) encodes isoform a, which is more abundant in adult brain.
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.