

Product datasheet for **SC109201**

EYA4 (NM_172103) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA4 (NM_172103) Human Untagged Clone
Tag:	Tag Free
Symbol:	EYA4
Synonyms:	CMD1J; DFNA10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_172103, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGACTCCCAGGATTTAAATGAACAATCAGTAAAGAAAACGTGCACAGAATCAGATGTTTCACAAT
CTCAGAATTCAGGTCTATGAAATGCAGGACCTAGCAAGTCTCATACTCTTGTGGAGGTGGTGATAC
TCCAGGTAGTCCAAACTGGAAAAATCTAATCTCAGCAGCACATCAGTTACTACAATGGGACAGGAGTG
TCTCTTCTTGCAGTCAAAACAGAGCCCTTGAACAGCAGTGAACCACAGCCACGACTGGAGATGGAGCGC
TTGACACTTTTACTGGGTCAGTAATTACAAGTAGTGGCTACAGCCCCAGATCAGCACATCAGTATCCCC
ACAGCTGTATCCTTCCAAGCCCTATCCACACATTTCTTTCTACACCAGCAGCTCAAACAATGTCTGCCTAT
GCAGGCCAGACTCAGTATTCGGGGATGCAGCAGCCAGCCGTCTACACAGCCTACTCACAGACAGGACAGC
CCTACAGCTTGCCCACTTACGATTTGGGTGTGATGTTGCCAGCCATCAAGACAGAGAGTGGACTTTCCCA
AACTCAGTCCCCATTACAGAGTGGCTGCCTCAGTTACAGCCCAGGGTTCTCTACCCACAGCCAGGCCAG
ACACCTTATTCTTACCAAATGCCAGTTCTAGTTTTGCACCATCATCTACTATTTATGCAAATAATTCAG
TTTCCAATTCAACGAATTTCAAGTGGTTCACAACAGGATTATCCATCCTATACAGCCTTTGGCCAAAACCA
GTATGCACAGTATTATTCAGCATCAACGTATGGAGCGTATATGACATCGAATAACACAGCCGATGGCACA
CCCTCTTCAACCTCTACTTATCAGTTGCAGGAATCTCTCCAGGACTGACTAACCACCAGGAGAGTTTCG
ATACCATGCAGAGTCCCTCCACACCCATCAAAGATCTTGATGAGAGAACCTGTAGGAGTTCTGGGTCAA
GTCCAGAGGAAGAGGCCGAAAAATAATCCCTCCCCGCCCTCTGATAGTGACCTGGAGCGTGTGTTTGTG
TGGGATTTGGATGAAACCATCATTGTTTTTCACTACTGCTCACCGGGTCTTATGCACAGAAGTATGGCA
AGGATCCCCCATGGCTGTAACCCCTGGACTCCGCATGGAAGAAATGATTTTTAATCTTGCTGATACTCA
TTTGTTTTTAATGATTTAGAGGAGTGTGATCAAGTTCATATAGATGATGTTTCTCTGATGATAATGGG
CAGGACTTAAGTACCTACAGTTTTGCAACTGATGGCTTCCATGCAGCTGCAAGTAGTGCAAACTTTGTT
TGCCAACAGGTGTAAGAGGAGGGTTGACTGGATGAGGAAGTTGGCTTTTCGTTACAGAAGAGTAAAGA
ATTATATAACACCTACAAGAACAACGTTGGAGGACTCCTTGCCCTGCCAAGAGGATGCCTGGCTACAG
TTAAGGGCAGAGATTGAAGGTCTGACAGATTCTGGCTAACAAATGCACTTAAGTCTTTATCAATTATTA
GCACTAGGAGTAACTGCATAAATGTCTTGGTAACGACAACTCACTGATCCCAGCACTTGCGAAGTTCT
ACTCTATAGTTTAGGAGGTGCTTTCCCATTTGAGAATATTTACAGTGCACTAAAATAGGAAAAGAAAGT
TGCTTTGAACGAATAATGCAAAGTTTGGCAGAAAAGTAGTGTATGTTGTAATTGGGGATGGTGTAGAAG
AAGAACAGGCAGCAAAAAGCACAAACATGCCCTTCTGGAGGATATCCAGTCACTCAGACCTCCTGGCTCT
CCACCAAGCACTGGAATTAGAGTATTTGTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_172103 unedited

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CGGATTTTGTATACGATCTCACTATAGGGCGGCCGCGATTCCGGCAGGAGGTGGCCGAAG
GGATGTCCTGTTTTACCAGAGGCACAGCGCGAAGGGGAACTTCGACACTGGAAGGAAC
GAGAATAAATACTTAATTACGGACGCACTGAACCGCGGCTGGGACAGACACTTCGGGAAC
CCGAGGCCGACCGGCGACGAGATAGTCATTTTTACTTGAAGGAAGCTGCTTCTACTTGG
GAGTGGCAGGAGAAGTGAGAAAACCACATGGAAGACTCCCAGGATTTAAATGAACAATCA
GTAAAGAAAACGTGCACAGAATCAGATGTTTCACAATCTCAGAATTCAGGTCTATGGAA
ATGCAGGACCTAGCAAGTCTCATACTCTTGTGGAGGTGGTGATACTCCAGGTAGCTCC
AAACTGGAAAAATCTAATCTCAGCAGCACATCAGTTACTACAATGGGACAGGAGTGTCT
CTTCTTGCAGTCAAAACAGAGCCCTTGAACAGCAGTGAACCACAGCCACGACTGGAGAT
GGAGCGCTTGACACTCTTACTGGGTCAGTAATTACAAGTAGTGGCTACAGCCCCAGATCA
GCACATCAGTATCCCCACAGCTGTATCCTTCCAAGCCCTATCCACACATTTCTTTCTACA
CCAGCAGCTCAAACAATGTCTGCCTATGCAGGCCAGACTCAGTATTCGGGGATGCAGCAG
CCAGCCGTCTACACAGCCTACTCACAGACAGGACAGNCCTACAGCTTGGCCACTTACGAT
TTGGGGTGTGATGTTGCCAGCCATCCAGACAGAGAGTGGACTTTCCAACTCAATCCCCA
TTACAGAGTGGGCTGCTCAGTTACAGCCCAGGGTTTTCTACCCNAAGNCAGCCAGGAAAC
TTAATCTTACCAAATGCAGGTTCTAGTTTGACCATATT
    
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3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_172103 unedited CCCCCAATGTTAGNCCGCGGCCCAATCTACGAGCGGGTNTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGAGCCGACCTGGATTTTAAGGGGAATAATA GCCAATATTAACATTTTTTAGATAGTTTAAAATTTATTTTGAAGTATCGTTACCAACAT CAACATTTGGGAAAGCAAGGGGCATCAAATCCTACCTGGTTAAGGGAAAGCAGGTTTT AATCAGGGCATACTCCTACGGCCCTTCAATTAATAAAATAAAATGAAACCAATGACCAA CTTTTTAATTTTGTAACTAGGAAGAAAAGAGGGTGAATTCCTTTTTGTATAAAAAATA TTTGAAGCCGACTACCTAAAGTAAAAAAAAGGGGGGATTATAACTTTTTTACTTGT TTGGGACCACCCATAACTTAAGCCCGTAGAGGCCACCTGATTTATTTCACTGGCGTAAAA TTGAGAGAAAAGTACTTTAGCATACATTTTCAAGGGGAAGATATTTCCCAAGGGACCCAA ATGAGCTTTTGTGGGCAAAAAACTTAGACAATACCGGGGTGTTGGGCCTTCAAAGA GATACTATAATAGTATACCGTCCATATGTGACATTAATAATTTTCATGAAAGGGGTAAATA GAGAAAAGTAAAGGAGTCCACTGGCGATGATAATGAAAAGAAAAACCCTGCTTA CANGAAGTGGCCAAACAAAGCATGAATTGNTAAATTTGGGCTGGGACATTTTTAGAAAA TTTCTATAACAATTCTGTTTTAGGGAAAGGGTTTTTGAATTAACATGCACAGATTTT TTTAAGAGCTAGCCAAAGACCTTTTGTATTATTCTTTTTCCACATAGGACCACCC CCTGGGATTGGCATTAAAGGGTTGGACCTTTAAACAAGGATTCAGACTTGCCAAC
Restriction Sites:	NotI-NotI
ACCN:	NM_172103
Insert Size:	4400 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).
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:	<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:	<u>NM_172103.1</u> , <u>NP_742101.1</u>
RefSeq Size:	5628 bp
RefSeq ORF:	5628 bp
Locus ID:	2070
UniProt ID:	<u>O95677</u>
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 (2) lacks an in-frame segment of the 5' coding region, compared to variant 1. The resulting isoform (b) is shorter than 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.