

## Product datasheet for **SC333498**

### CIAO2A (NM\_001289108) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CIAO2A (NM\_001289108) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CIAO2A  
**Synonyms:** CIA2A; FAM96A  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333498 representing NM\_001289108.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGCAGCGGGTGTCCGGGCTGCTCTCCTGGACGCTGAGCAGAGTCCTGTGGCTCTCCGGCCTCTCTGAG  
 CCGGGAGCTGCCCGGCAGCCCCGGATCATGGAAGAGAAAGCGCTAGAAGTTTATGATTTGATTAGAACT  
 ATCCGGGACCCAGAAAAGCCCACTTTAGAAGAACTGGAAGTGGTCTCGGAAAGTTGTGTGGAAGTT  
 CAGGAGATAAATGAAGAAGAATATCTGGTTATTATCAGGTTACGCCAACAGTACCTCATTGCTCTTTG  
 GCGACTCTTATTGTTGGAATCTACATTCTGA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001289108  
**Insert Size:** 309 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:**

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\\_001289108.1](#)


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RefSeq Size: 3527 bp

RefSeq ORF: 309 bp

Locus ID: 84191

UniProt ID: [Q9H5X1](#)

Cytogenetics: 15q22.31

MW: 11.6 kDa

**Gene Summary:** Component of the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein complex that mediates the incorporation of iron-sulfur cluster into extramitochondrial Fe/S proteins (PubMed:23891004). As a CIA complex component and in collaboration with CIAO1 specifically matures ACO1 and stabilizes IREB2, connecting cytosolic iron-sulfur protein maturation with cellular iron regulation (PubMed:23891004). May play a role in chromosome segregation through establishment of sister chromatid cohesion. May induce apoptosis in collaboration with APAF1 (PubMed:25716227).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an internal coding exon that causes a frame-shift and differs at the 3' end compared to variant 1. The resulting shorter isoform (b) has a distinct C-terminus compared to isoform a. Variants 2 and 3 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.