

Product datasheet for SC301959

CIAO2A (NM_001014812) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CIAO2A (NM_001014812) Human Untagged Clone
Tag:	Tag Free
Symbol:	CIAO2A
Synonyms:	CIA2A; FAM96A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001014812 edited <pre> CCCCGCTTTTCTGCTCTCCTGAACCTTTAGGCTTGTCTCGGCCCATTTGAAGACCAGG AAGTTGATCAATCCCAGGCTGCTGAGAGACGGTGGCGCGATTGGGACAGTCGCCAGGGA TGGCTGAGCGTGAAGATGCAGCGGGTGTCCGGGCTGCTCTCCTGGACACTGAGCAGAGTC CTGTGGCTCTCCGGCCTCTCTGAGCCGGGAGCTGCCCGGCAGCCCGGATCATGGAAGAG AAAGCGCTAGAGGTTTATGATTTGATTAGAACTATCCGGGACCCAGAAAAGCCCAATACT TTAGAAGAACTGGAAGTGGTCTCGGAAAGTTGTGTGGAAGTTCAGGAGATAAATGAAGAA GAATATCTGGTTATTATCAGGTTACGCCAACAGTACCTCATTGCTCTTTGGCGACTCTT ATTGTTGGAATCTACATTTCTGAAGGAACCCACTCAACAGAAGAAGACATCAATAAGCA GATAAATGACAAAGAGCGAGTGGCAGCTGCAATGAAAAACCCCACTTACGGGAAATTGT GGAACAGTGTGCTTGAACCTGACTGATAGCTGTTTTAAGAGCCACTGGCCTGTAATTG TTTGATATATTTGTTAACTCTTTGTATAATGTCAGAGACTCATGTTTAATACATAGGT GATTTGTACCTCAGAGCATTTTTTAAAGGATTCTTTCCAAGCGAGATTTAATTATAAGGT AGTACCTAATTTGTTCAATGTATAACATTCTCAGGATTTGTAACACTTAAATGATCAGAC AGAATAATATTTTCTAGTTATTATGTGTAAGATGAGTTGCTATTTTCTGATGCTCATTC TGATACAACTATTTTTCGTGTCAAATATCTACTGTGCCCAATGTACTCAATTTAAATCA TTACTCTGTAAATAAATAAGCAGATGATTCTTAAAAAAAAAAAAAAAAAAAAA </pre>

Restriction Sites: Please inquire

ACCN: NM_001014812

Insert Size: 1000 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).



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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).
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:	<u>NM_001014812.1</u> , <u>NP_001014812.1</u>
RefSeq Size:	1058 bp
RefSeq ORF:	309 bp
Locus ID:	84191
UniProt ID:	<u>Q9H5X1</u>
Cytogenetics:	15q22.31
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 (2) lacks an internal coding exon that causes a frame-shift 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.