

Product datasheet for **SC126950**

CIAO2A (NM_032231) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CIAO2A (NM_032231) Human Untagged Clone
Tag:	Tag Free
Symbol:	CIAO2A
Synonyms:	CIA2A; FAM96A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126950 sequence for NM_032231 edited (data generated by NextGen Sequencing) ATGCAGCGGGTGTCCGGGCTGCTCTCTGGACGCTGAGCAGAGTCCTGTGGCTCTCCGGC CTCTCTGAGCCGGGAGCTGCCCGCAGCCCCGGATCATGGAAGAGAAAGCGCTAGAGGTT TATGATTTGATTAGAACTATCCGGGACCCAGAAAAGCCCAATACTTTAGAAGAACTGGAA GTGGTCTCGGAAAGTTGTGTGGAAGTTCAGGAGATAAATGAAGAAGAATATCTGGTTATT ATCAGGTTACGCCAACAGTACCTCATTGCTCTTTGGCGACTCTTATTGGGCTGTGCTTA AGAGTAAACTTCAGCGATGTTTACCATTAAACATAAGTTGGAAATCTACATTCTGAA GGAACCCACTCAACAGAAGAAGACATCAATAAGCAGATAAATGACAAAGAGCGAGTGGCA GCTGCAATGGAAAACCCCACTTACGGGAAATTGTGGAACAGTGTGCTTGAACCTGAC TGA Clone variation with respect to NM_032231.4 117 a=>g



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032231 unedited TTCGAATTTTGGTATACGACTCACTATAGGGGCGGCCGCGATTCCGGCACGAGAGATGCAG CGGGTGTCCGGGTGCTCTCCTGGACGCTGAGCAGAGTCTGTGGCTCTCCGGCCTCTCT GAGCCGGGAGCTGCCCGGAGCCCGGATCATGGAAGAGAAAGCGCTAGAGGTTTATGAT TTGATTAGAACTATCCGGGACCCAGAAAAGCCCAATACTTTAGAAGAACTGGAAGTGGTC TCGGAAAGTTGTGTGGAAGTTCAGGAGATAAATGAAGAAGAATATCTGGTTATTATCAGG TTCACGCCAACAGTACCTCATTGCTCTTTGGCGACTCTTATTGGGCTGTGCTTAAGAGTA AAACTTCAGCGATGTTTACCATTAAACATAAGTTGGAATCTACATTTCTGAAGGAACC CACTCAACAGAAGAAGACATCAATAAGCAGATAAATGACAAAGAGCGAGTGGCAGCTGCA ATGGAAAACCCCAACTTACGGGAAATTGTGGAACAGTGTGTCTTGAACCTGACTGATAG CTGTTTTAAGAGCCACTGGCCTGTAATTGTTTGATATATTTGTTTAACTCTTTGTATAA TGTCAGAGACTCATGTTTAATACATAGGTGATTGTACCTCAGAGCATTTTTTAAAGGAT TCTTTCCAAGCGAGATTTAATTATAAGGTAGTACCTAATTTGTTCAATGTATAACATTCT CAGGATTTGNTACACTTAAATGATCAGACAGAATAATATTTTCTAGTTATTATGTGAAG AATGAGTGCTATTTTTCTGATGCTCATTCTGATACAATATNTTTCGTGTCANATATCTA CTGTGCCCAAATGACTCAATTTAAATCATTACNTCTGTAATAATAAGCAGATGATTCT TAANNAAAAAAAAAAAAAAAAAACTCGACTCTAGATGCGGCCGCGGTATAGCTGTTC CT
Restriction Sites:	NotI-NotI
ACCN:	NM_032231
Insert Size:	980 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:	<u>NM_032231.4</u> , <u>NP_115607.1</u>
RefSeq Size:	1108 bp
RefSeq ORF:	483 bp
Locus ID:	84191
UniProt ID:	<u>Q9H5X1</u>
Cytogenetics:	15q22.31
Domains:	DUF59

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 (1) represents the predominant transcript and encodes the longer isoform (a).