

Product datasheet for SC324407

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_032231.4

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GTCTGGCCCCGCTTTTCTGCTCTCCTGAACCTTTAGGCTTGTCTCGGCCCATTTGAA
GACCAGGAAGTTGATCAATCCCGAGGCTGCTGAGAGACGGTGGCGCGATTGGGACAGTCG
CCAGGGATGGCTGAGCGTGAAGATGCAGCGGGTGTCCGGGCTGCTCTCCTGGACGCTGAG
CAGAGTCTGTGGCTCTCCGGCTCTCTGAGCCGGGAGCTGCCCGGCAGCCCGGATCAT
GGAAGAGAAAGCGCTAGAGGTTTATGATTTGATTAGAAGTATCCGGGACCCAGAAAAGCC
CAATACTTTAGAAGAACTGGAAGTGGTCTCGGAAAGTTGTGTGAAGTTCAGGAGATAAA
TGAAGAAGAATATCTGGTTATTATCAGGTTACGCCAACAGTACCTCATTGCTCTTTGGC
GACTCTTATTGGGCTGTGCTTAAGAGTAAACTTCAGCGATGTTTACCATTAAACATAA
GTTGGAATCTACATTTCTGAAGGAACCCACTCAACAGAAGAAGACATCAATAAGCAGAT
AAATGACAAAGAGCGAGTGGCAGCTGCAATGGAAAACCCCACTTACGGGAAATTGTGGA
ACAGTGTGTCTTGAACCTGACTGATAGCTGTTTTAAGAGCCACTGGCCTGTAATTGTTT
GATATATTTGTTTAACTCTTTGTATAATGTGAGAGACTCATGTTTAATACATAGGTGAT
TTGTACCTCAGAGCATTTTTTAAAGGATTCTTTCCAAGCGAGATTTAATTATAAGGTAGT
ACCTAATTTGTTCAATGTATAACATTCTCAGGATTTGTAACACTTAAATGATCAGACAGA
ATAATATTTCTAGTTATTATGTGTAAGATGAGTTGCTATTTTCTGATGCTCATTCTGA
TACAACTATTTTTCGTGTCAAATATCTACTGTGCCCAAATGACTCAATTTAAATCATT
CTCTGTAAAATAAATAAGCAGATGATTCTTATAAAAAAAAAAAAAAAAAAAAA
  
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Restriction Sites: Please inquire

ACCN: NM_032231

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_032231.4, 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).