

Product datasheet for RC221899

CIAO2A (NM_001014812) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CIAO2A (NM_001014812) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CIAO2A
Synonyms: CIA2A; FAM96A
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC221899 representing NM_001014812
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCGGGTGTCCGGGCTGCTCTCCTGGACGCTGAGCAGAGTCCTGTGGCTCTCCGGCCTCTCTGAGC
CGGGAGCTGCCCGCAGCCCGGATCATGGAAGAGAAAGCGCTAGAAGTTTATGATTTGATTAGAAGCTAT
CCGGGACCCAGAAAAGCCCAATACTTTAGAAGAACTGGAAGTGGTCTCGGAAAGTTGTGTGGAAGTTCAG
GAGATAAATGAAGAAGAATATCTGGTTATTATCAGGTTACGCCAACAGTACCTCATTGCTCTTTGGCGA
CTCTTATTGTTGAAATCTACATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221899 representing NM_001014812
Red=Cloning site Green=Tags(s)

MQRVSGLLSWTLSRVLWLSGLSEPGAARQPRIMEEKALEVYDLIRTIRDPEKPNTLEELEVVSSESCVEVQ
EINEEYLVIIIRFTPTVPHCSLTLIVGNLHF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001014812.2
RefSeq Size:	1058 bp
RefSeq ORF:	309 bp
Locus ID:	84191
UniProt ID:	Q9H5X1
Cytogenetics:	15q22.31
MW:	11.5 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]