

Product datasheet for SC321723

CIAO1 (NM_004804) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CIAO1 (NM_004804) Human Untagged Clone
Tag: Tag Free
Symbol: CIAO1
Synonyms: CIA1; WDR39
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004804.2
CGGAAGCCTGGAGTGGGCGGTACGCAGACGCGCGGTGAGACCCGCTGTCTGCTCAGCG
GACTCTGCCCGCCCCACCTCCCCCTGCGTCGGGCCGACATGAAGGACTCGCTGGTGCTG
CTGGGCGGTGTCCCGGCGCACCCGGACTCCCGCTGCTGGTTCTGGCCTGGAACCCCGCG
GGGACCCTGCTGGCCTCGTGCAGCGGCGACCCGAGAATCCGCATCTGGGCGACGGAGGT
GACAGCTGGATCTGCAAGTCTGTCCTTTCTGAAGGCCACCGCGACCCGTGCGGAAGGTA
GCCTGGTCCCCCTGCGGTAATTACCTGGCCTCTGCCAGCTTTGATGCTACCACTTGCAAT
TGAAGAAGAACCAGGATGACTTTGAGTGTGAACCACTCTCGAGGGCCATGAAAATGAG
GTCAAGTCAGTGGCTTGGGCCCCATCTGGCAACCTCTGGCCACTTGACGCCGAGATAAG
AGCGTTTGGGTCTGGGAAGTTGATGAAGAGGATGAGTATGAATGTGTCAGTGTCTCAAC
TCCCACACACAGGATGTCAAGCATGTGGTTTGGCACCCAAGTCAGGAGCTCTTAGCTTCT
GCCAGCTATGATGACACAGTGAAGCTGTACCGGGAGGAAGAGGATGACTGGGTATGCTGT
GCCACCCTTGAGGGCCATGAATCCTACTGTGTGGAGCTTGGCCTTTGACCCGAGTGCCAG
CGCCTGGCGTCTTGTAGTGATGACCGTACTGTGCGTATCTGGCGTCAGTATCTACCAGGC
AATGAACAAGGGGTGGCATGCAGCGGCTCTGACCCAGTTGAAAATGTATCTGTACTTTG
TCCGGCTTCCACTCAAGGACATTTATGACATTGCTTGGTGTGAGCTGACAGGGGCTCTG
GCCACAGCTTGTGGGATGACGCGATCCGCGTGTTCAGGAGGATCCCAACTCGGATCCA
CAGCAGCCACCTTCTCCCTGACAGCCCACTTGCATCAGGCCATTCCCAGGATGTCAAC
TGTGTGGCCTGGAACCCCAAGGAGCCAGGGCTACTGGCCTCCTGCAGTGATGATGGGGAG
GTGGCCTTCTGGAAGTATCAGCGCCTGAAGCCTCTGAGCTACCTCGACTTTGGACAGA
GTAATGACTCCCCAGAAAACGTCATATAAGACTTTACCAGCCCCTGAGAGGACCAGGAGG
AGCATCCTTGACCTTCATTTAACTTGGCTCACTTCTCTTCAGACTTGGGTAGAAGTGCAG
AGCCACAGAATTGCTTTCCTTCCCCGCTTTGACATGAGGCCTTCAGTAAAGAGCTACAG
AACATGAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire



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ACCN:	NM_004804
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).
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:	<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:	<u>NM_004804.2</u> , <u>NP_004795.1</u>
RefSeq Size:	4053 bp
RefSeq ORF:	1020 bp
Locus ID:	9391
UniProt ID:	<u>O76071</u>
Cytogenetics:	2q11.2
Domains:	WD40
Protein Families:	Transcription Factors
Gene Summary:	Key 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:17937914, PubMed:23891004). As a CIA complex component, interacts specifically with CIAO2A or CIAO2B and MMS19 to assist different branches of iron-sulfur protein assembly, depending of its interactors. The complex CIAO1:CIAO2B:MMS19 binds to and facilitates the assembly of most cytosolic-nuclear Fe/S proteins. CIAO1:CIAO2A specifically matures ACO1 and stabilizes IREB2 (PubMed:23891004). Seems to specifically modulate the transactivation activity of WT1 (PubMed:9556563). As part of the mitotic spindle-associated MMXD complex it may play a role in chromosome segregation (PubMed:20797633). [UniProtKB/Swiss-Prot Function]