

Product datasheet for MR205061

Ciao1 (NM_025296) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ciao1 (NM_025296) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ciao1
Synonyms:	AW210570; Wdr39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205061 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGATTCTCTGGTACTGCAGAGCCGCGTCCCGGCGCACCCGGATTCCCGCTGCTGGTTCTGGCCT
GGAACCCCTCGGGGACCCTGTTGGCTTCTGCGGAGGCGACCGTAAAATTCGCATCTGGGGCACCGAGGG
TGACAGCTGGATTTGCAAGTCTGCCTTTCTGAAGGCCATCAGCGCACCGTTAGGAAAGTGGCCTGGTCC
CCGTGTGAAATTACCTGGCATCTGCCAGCTTTGATGCCACCACTTGATTTGGAAGAAGAACCAGGATG
ACTTTGAGTGTGTGACCACTCTTGAGGGCCATGAAAATGAGGTCAAGTCAGTGGCTTGGCCCCATCTGG
CAACCTCTTGGCTACCTGCAGCAGAGATAAGAGCGTGTGGTCTGGGAAGTTGATGAAGAGGATGAGTAT
GAGTGTGTGAGTGTCTCAGCTCTCATACGCAGGATGTTAAGCACGTGGTTTGGCACCCGAGCCAGGAGC
TTTTAGCTTCTGCTAGCTATGATGACACAGTGAAGCTATACCAGGAAGAAGGGGATGACTGGGTCTGCTG
TGCCACCCCTCGAAGGTGATGAGTCCACTGTTTGGAGCATAGCCTTTGATCCCAGCGGCCAGCGGCTGGCA
TCTTGCAAGTGTGACCGAACTGTACGCATCTGGCGCCAGTATCTACCGGGCAATGAACAAGGGGTGGCAT
GCAGTGGCTCTGACCCAGCTGGAATGTATCTGCACTTTGTGGGCTTCCACACCAGGACCATTACGA
CGTTGCTTGGTGTGAGTGTGACAGGGCCCTGGCTACAGCTTGTGGAGATGATGCCATCCGAGTGTGGG
GAAGACCCAGGCTCAGACCCACAGCAGCCACCTTCTCTGACAGCCCATCTTCGTGAGGCCATTCCC
AGGATGTCAACTGTGTGGCTTGAATCCAAGGAGCCAGGGCTCCTGGCCCTTTGATGATGATGGGGA
GGTAGCCTTCTGGGAGTATCACCAGCCTGCAGGTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205061 protein sequence
Red=Cloning site Green=Tags(s)

MKDSLVLQSRVPAHPDSRCWFLAWNPSGTLASC GGDRKIRIWIWGTEGDSWICKSVLSEGHQRTVRKVAWS
 PCGNYLASASFDATTCIWKKNQDDFECVTTLEGHENEVKVAVAPSGNLLATCSRDKSVWVWEVDEEDEY
 ECVSVLSSHTQDVKHVVHPSQELLASASYDDTVKLYQEEGDDWCCATLEGHESTVWSIAFDPSGQRLA
 SCSDDRTVRIWRQYLPGNEQGVACSGSDPSWKICTLSGFHTRTIYDVAWCQLTGALATACGDDAIRVFE
 EDPGSDPQQPTFSLTAHLRQAHSQDVNCVAVNPKPEGLLASCSDDGGEVAFWEYHQAPAGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025296

ORF Size: 1020 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:

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_025296.1](#), [NM_025296.2](#), [NM_025296.3](#), [NM_025296.4](#), [NP_079572.2](#)

RefSeq Size: 3075 bp

RefSeq ORF: 1020 bp

Locus ID: 26371

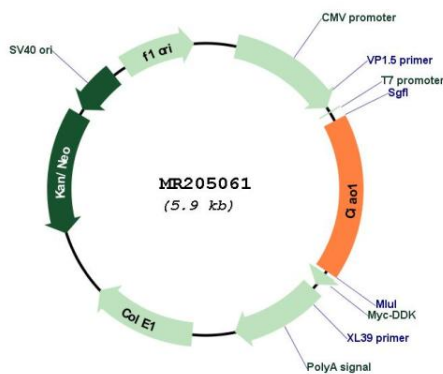
UniProt ID: [Q99KN2](#)

Cytogenetics: 2 61.86 cM

MW: 37.6 kDa

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 (By similarity). 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 (By similarity). Seems to specifically modulate the transactivation activity of WT1. As part of the mitotic spindle-associated MMXD complex it may play a role in chromosome segregation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205061