

## Product datasheet for **RN214206**

### Ciao1 (NM\_001008766) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ciao1 (NM\_001008766) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ciao1  
**Synonyms:** Wdr39  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN214206 representing NM\_001008766  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGGATGCGCTGGTACTGCAGAGCCGCGTCCCGGCGCACCCGGATCCCGCTGCTGGTTCTGGCCT  
GGAACCCACGGGAACCTTGTGGCCTCATGCGGAGGCGACCGTAAAATTCGCATCTGGGCACCGAGGG  
TGACAGCTGGATTGCAAGTCTGTCCTTCTGAAGGCCATCAGCGCACCGTTAGGAAAGTGGCCTGGTCC  
CCCTGTGGAAATTACCTGGCATCTGCCAGCTTTGATGCTACTACTTGCATTTGGAAGAAGAACCAGGATG  
ACTTTGAGTGTGTGACCACTCTTGAGGGTCATGAGAATGAGGTCAAGTCAGTGGCTTGGGCCCATCTGG  
CAACCTCTTGGCTACCTGCAGCAGAGATAAGAGCGTGTGGGTCTGGGAAGTTGATGAAGAAGATGAGTAT  
GAATGCGTCAGTGTCTCAATTCTCACACACAGGATGTTAAGCATGTGGTTTGGCACCAAGCCAGGAGC  
TTTTAGCTTCTGCTAGCTATGATGACACAGTGAAGCTATACCAGGAAGAAGGGGATGACTGGGTCTGCTG  
TGCTACCCTTGAAGGTCACGAGTCCACTGTATGGAGCATAGCCTTTGATCCCAGCGGCCAGCGTCTGGCA  
TCTTGCAGTGATGACCGAACTGTGCGCATCTGGCGCCAGTATCTACCTGGCAATGAACAAGGGGTGGCAT  
GCAGTGGCTCCGACCCAGCTGGAATGTGTTGCACTTTGTGGGCTTCCATACCAGGACCATCTACGA  
CGTTGCTTGGTGTGACGTGACAGGGGCCCTGGCTACAGCTTGTGGAGATGATGCCATCCGAGTGTTTGAG  
GAAGATCCAGGCTCAGACCCACAGCAGCCACCTTCTCTTTGACAGCCCATCTTCGTCAGGCCATTCCC  
AGGATGTCAACTGTGTGGCTTGGAAACCCCAAGGAGGCAGGGCTCTGGCCTCTTGTAGTGTATGGGGA  
GGTAGCCTTCTGGGAGTATCATCAGCCTGCAGGTCTC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001008766



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<b>Insert Size:</b>	1020 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001008766.1</a></u> , <u><a href="#">NP_001008766.1</a></u>
<b>RefSeq Size:</b>	1458 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	29231
<b>UniProt ID:</b>	<u><a href="#">Q5M7T1</a></u>
<b>Cytogenetics:</b>	3q36
<b>Gene Summary:</b>	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]