

## Product datasheet for **MG205061**

### Ciao1 (NM\_025296) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ciao1 (NM_025296) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ciao1
Synonyms:	AW210570; Wdr39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205061 representing NM_025296 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGATTCTCTGGTACTGCAGAGCCGCGTCCCGGCGCACCCGGATCCCGTCTGCTGGTTCTGGCCT  
GGAACCCCTCGGGGACCCTGTTGGCTTCTGCGGAGGCGACCGTAAAATTCGCATCTGGGGCACCGAGGG  
TGACAGCTGGATTTGCAAGTCTGCCTTTCTGAAGGCCATCAGCGCACCGTTAGGAAAGTGGCCTGGTCC  
CCGTGTGAAATTACCTGGCATCTGCCAGCTTTGATGCCACCACTTGATTTGGAAGAAGAACCAGGATG  
ACTTTGAGTGTGTGACCACTCTTGAGGGCCATGAAAATGAGGTCAAGTCAGTGGCTTGGCCCCATCTGG  
CAACCTCTTGGCTACCTGCAGCAGAGATAAGAGCGTGTGGTCTGGGAAGTTGATGAAGAGGATGAGTAT  
GAGTGTGTGAGTGTCTCAGCTCTCATACGCAGGATGTTAAGCACGTGGTTTGGCACCCGAGCCAGGAGC  
TTTTAGCTTCTGCTAGCTATGATGACACAGTGAAGCTATACCAGGAAGAAGGGGATGACTGGGTCTGCTG  
TGCCACCCCTCGAAGGTCATGAGTCCACTGTTTGGAGCATAGCCTTTGATCCCAGCGGCCAGCGGCTGGCA  
TCTTGCAAGTATGACCGAACTGTACGCATCTGGCGCCAGTATCTACCGGGCAATGAACAAGGGGTGGCAT  
GCAGTGGCTCTGACCCAGCTGGAATGTATCTGCACTTTGTGGGCTTCCACACCAGGACCATTACGA  
CGTTGCTTGGTGTGAGTGCAGCTGACAGGGGCTTGGCTACAGCTTGTGGAGATGATGCCATCCGAGTGTGG  
GAAGACCCAGGCTCAGACCCACAGCAGCCACCTTCTCTGACAGCCCATCTTCGTCAGGCCATTCCC  
AGGATGTCAACTGTGTGGCTTGGAAATCCAAGGAGCCAGGGCTCCTGGCCTCTTGTAGTATGATGGGGA  
GGTAGCCTTCTGGGAGTATCACCAGCCTGCAGGTCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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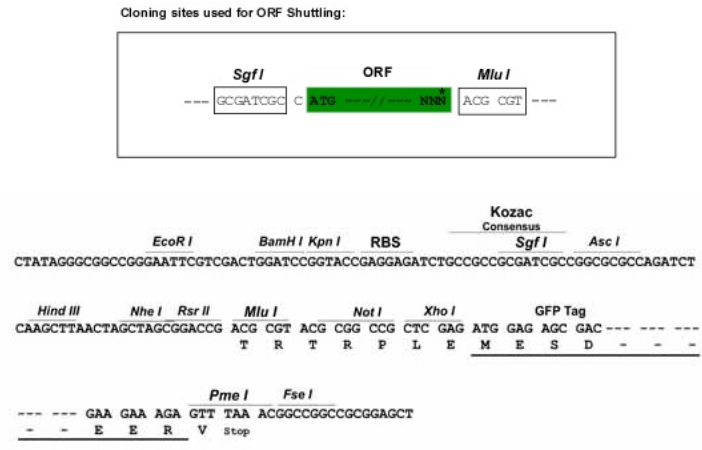
**Protein Sequence:** >MG205061 representing NM\_025296  
 Red=Cloning site Green=Tags(s)

MKDSLVLQSRVPAHPDSRCWFLAWNPSGTLASC GGDRKIRIWGTEGDSWICKSVLSEGHQRTVRKVAWS  
 PCGNYLASASFDATTCIWKNQDDFECVTTLEGHENEVKSVAWAPSGNLLATCSRDKSVWVWEVDEEDEY  
 ECVSVLSSHTQDVKHVVWHPSPQELLASASYDDTVKLYQEEGDDWCCATLEGHESTVWSIAFDPSGQRLA  
 SCSDDRTVRIWRQYLPGNEQGVACSGSDPSWKICTLSGFHTRTIYDVAWCQLTGALATACGDDAIRVFE  
 EDPGSDPQQPTFSLTAHLRQAHSQDVNCAWNPKEPGLLASCSDDGGEVAFWEYHQPAGL

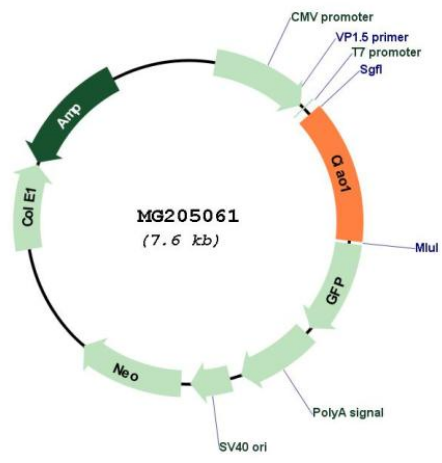
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_025296

**ORF Size:** 1017 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_025296.2</a> , <a href="#">NP_079572.2</a>
<b>RefSeq Size:</b>	3001 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	26371
<b>UniProt ID:</b>	<a href="#">Q99KN2</a>
<b>Cytogenetics:</b>	2 61.86 cM
<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]