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Product datasheet for RR214206

Ciao1 (NM_001008766) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ciao1 (NM_001008766) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ciao1
Synonyms:	Wdr39
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214206 representing NM_001008766 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAGGATGCGCTGGTACTGCAGAGCCGCGTCCCGGCGCACCCGGATTCCCGCTGCTGGTTCCTGGCCT GGAACCCCACGGGAACCTTGTTGGCCTCATGCGGAGGCGACCGTAAAATTCGCATCTGGGGCACCGAGGG TGACAGCTGGATTTGCAAGTCTGTCCTTTCTGAAGGCCATCAGCGCACCGTTAGGAAAGTGGCCTGGTCC CCCTGTGGAAATTACCTGGCATCTGCCAGCTTTGATGCTACTACTTGCATTTGGAAGAAGAACCAGGATG ACTTTGAGTGTGTGACCACTCTTGAGGGTCATGAGAATGAGGTCAAGTCAGTGGCTTGGGCCCCATCTGG CAACCTCTTGGCTACCTGCAGCAGAGATAAGAGCGTGTGGGTCTGGGAAGTTGATGAAGAAGATGAGTAT GAATGCGTCAGTGTCCTCAATTCTCACACACAGGATGTTAAGCATGTGGTTTGGCACCCAAGCCAGGAGC TTTTAGCTTCTGCTAGCTATGATGACACAGTGAAGCTATACCAGGAAGAAGGGGATGACTGGGTCTGCTG TGCTACCCTTGAAGGTCACGAGTCCACTGTATGGAGCATAGCCTTTGATCCCAGCGGCCAGCGTCTGGCA TCTTGCAGTGATGACCGAACTGTGCGCATCTGGCGCCAGTATCTACCTGGCAATGAACAAGGGGTGGCAT GCAGTGGCTCCGACCCCAGCTGGAAATGTGTTTGCACTTTGTCGGGCTTCCATACCAGGACCATCTACGA CGTTGCTTGGTGTCAGCTGACAGGGGCCCTGGCTACAGCTTGTGGAGATGATGCCATCCGAGTGTTTGAG GAAGATCCAGGCTCAGACCCACAGCAGCCCACCTTCTCTTTGACAGCCCATCTTCGTCAGGCCCATTCCC AGGATGTCAACTGTGTGGCTTGGAACCCCAAGGAGGCAGGGCTCCTGGCCTCTTGTAGTGATGATGGGGA GGTAGCCTTCTGGGAGTATCATCAGCCTGCAGGTCTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

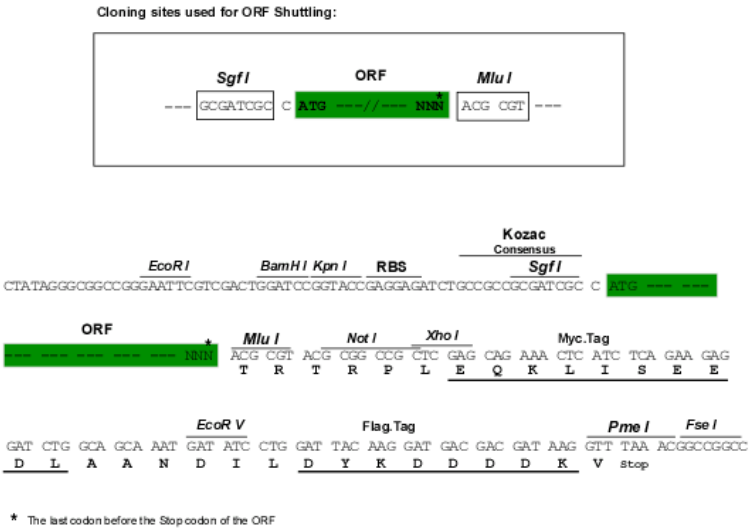
>RR214206 representing NM_001008766
Red=Cloning site Green=Tags(s)

MKDALVLQSRVPAHPDSRCWFLAWNPTGTLLASCGGDRKIRIWGTEGDSWICKSVLSEGHQRTVRKVAWS
PCGNYLASASFDATTCIWKKNQDDFECVTTLEGHENEVKSVAWAPSGNLLATCSRDKSVWVWEVDEEDEY
ECVSVLNSHTQDVKHVVWHPSQELLASASYDDTVKLYQEEGDDWVCCATLEGHESTVWSIAFDPSGQRLA
SCSDDRTVRIWRQYLPGNEQGVACSGSDPSWKCVCTLSGFHTRTIYDVAWCQLTGALATACGDDAIRVFE
EDPGSDPQQPTFSLTAHLRQAHSQDVNCVAWNPKEAGLLASCSDDGEVAFWEYHQPAGL

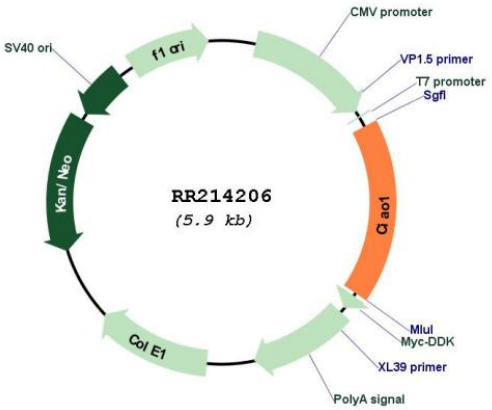
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001008766

ORF Size: 1017 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_001008766.1, NP_001008766.1
RefSeq Size:	1458 bp
RefSeq ORF:	1020 bp
Locus ID:	29231
UniProt ID:	Q5M7T1
Cytogenetics:	3q36
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]