

Product datasheet for **RC206978**

CIAO3 (NM_022493) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CIAO3 (NM_022493) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CIAO3 |
| Synonyms: | HPRN; IOP1; LET1L; NAR1; NARFL; PRN |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC206978 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCGCCCTTCAGCGGGCGCTGCAGCTGACGGACCTGGATGACTTCATCGGGCCGCTCTCAGGAGT
 GCATCAAGCCTGTCAAAGTGGAAAAAGGGCGGGAAGTGGCGTGGCCAAGATTTCGATTGAAGATGACGG
 GAGCTACTTCCAAATTAACCAAGACGGCGGACCCGGAGGCTGGAGAAGGCCAAGGTCTCGCTAAACGAC
 TGCTGGCGTGCAGCGGCTGCATCACCTCCGACAGACCGTGCTTATCACCCAGCAGAGCCACGAGGAGC
 TGAAGAAGGTTCTAGATGCTAACAAAGTGGCGGCACCCAGTACGACAGAGGCTGGTTGTAGTTTCGGTCTC
 ACCACAGTCTAGAGCATCGCTGGCTGCACGTTTCAGTGAATCCTACAGATACTGCCAGGAAATTAACC
 TCATTCTTAAAAAATAGGGTGCACCTCGTCTTCGACACCGCCTTCTCAAGGCACTTCAGCCTCCTGG
 AGAGCCAGCGAGAGTTTGTGCGCGATTCCGAGGACAGGCGGACTGCAGACAGGCGCTGCCCTGCTGGC
 CTCTGCCTGCCAGGCTGGATCTGCTATGCCGAGAAGACTCACGGCAGCTTCATCTCCCCACATCAGC
 ACCGCCCGGTCCCGCAGCAGGTATGGCTCCCTGGTCAAGGACTTCTCGCCAGCAGCAGCACTTGA
 CCCCTGACAAGATCTACCACGTACAGTGTGCTGCTATGACAAAAAGCTGGAAGCCTCCAGACCCGA
 CTTTTTCAACCAGGAGCACCAGACCGGATGTGGACTGTGCCTCACAAAGGAGAAGTTTTAGGTTG
 CTGGAGGAAGAGGGCGTCTCCCTCCCGACCTGGAACAGCCCTCTGGACAGCCTGTGCAGCGGTGCC
 CTGCAGAGGAGCCACCAGCCATCGGGGAGGGGCTCGGGGGGCTACCTGGAGCAGTGTTCGGCAGCG
 GGCCCGAGAGCTTTTGAATCCATGTGGCTGAGGTTACCTACAAACCCCTGAGGAACAAAGACTTCCAG
 GAGGTGACTGGAGAAGGAGGGCCAGGTGCTGCTGCACCTCGCAATGGCGTACGGCTTCGCAACATCC
 AGAACCTGGTGCAGAGGCTCAAACGAGGGCGCTGCCCTACCACACTACGTTGAGGTCATGGCCTGCCCTC
 AGGCTGCCTGAACGGCGGGGGCCAGCTCCAGGCCCCAGACAGGCCAGCAGAGAGCTCCTCCAGCAGCTG
 GAGAGACTGTACGGCATGGTCCGGGCTGAGGCGCCCGAGGACGCGCCTGGGGTTCAGGAGCTGTACACAC
 ACTGGCTGCAGGGCAGGACTCGGAGTGTGACGGTCTGCTGCATACGCACTACCACGCGTGGAGAA
 GGCCAGCACTGGCTGGGCATCCGGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206978 protein sequence
 Red=Cloning site Green=Tags(s)

MASPFSGALQLTDLDDFIGPSQECIKPVKVEKRAGSGVAKIRIEDDGSYFQINQDGGTRRLEKAKVSLND
 CLACSGCITSAETVLITQQSHEELKKVLDANKMAAPSQQRLVVSVSPQSRASLAARFQLNPTDTARKLT
 SFFKKIGVHFVFDTAFSRHFSLLESQREFVRRFRGQADCRQALPLLASACPGWICYAEKTHGSFILPHIS
 TARSPQQVMGSLVKDFFAQQQHLTPDKIYHVTVMPCYDKKLEASRPDFFNQEHQTRDVCVLTGTEVFRL
 LEEEGVSLPDLEPAPLDSLCSGASAEPTSHRGGSGGYLEHVFRHAARELFGIHVAEVTYKPLRNKDFQ
 EVTLEKEGQVLLHFAMAYGFRNIQNLVQRLKRGRCPYHYVEVMACPSGCLNGGGQLQAPDRPSRELLQHV
 ERLYGMVRAEAPEDAPGVQELYTHWLQGTDSECAGRLLHTQYHAVEKASTGLGIRW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6333_f04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022493

ORF Size: 1428 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_022493.3](#)
RefSeq Size: 2109 bp

RefSeq ORF: 1431 bp

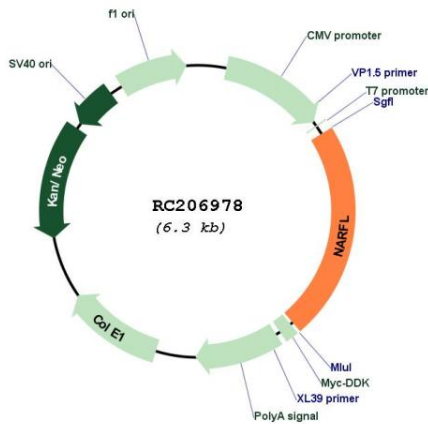
Locus ID: 64428

UniProt ID: [Q9H6Q4](#)
Cytogenetics: 16p13.3

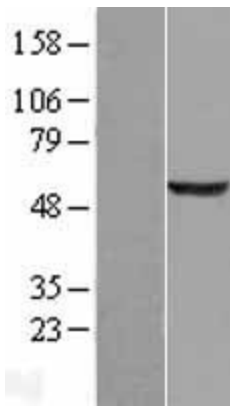
MW: 53 kDa

Gene Summary: 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. Seems to negatively regulate the level of HIF1A expression, although this effect could be indirect.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206978



Western blot validation of overexpression lysate (Cat# [LY411641]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206978 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).