

Product datasheet for **RG206978**

CIAO3 (NM_022493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CIAO3 (NM_022493) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CIAO3
Synonyms:	HPRN; IOP1; LET1L; NAR1; NARFL; PRN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206978 representing NM_022493
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTCGCCCTTCAGCGGGCGCTGCAGCTGACGGACCTGGATGACTTCATCGGGCCGCTCTCAGGAGT
 GCATCAAGCCTGTCAAAGTGGAAAAAGGGCGGGAAGTGGCGTGGCCAAGATTTCGATTGAAGATGACGG
 GAGCTACTTCAAATTAACCAAGACGGCGGACCCGGAGGCTGGAGAAGGCCAAGGTCTCGCTAAACGAC
 TGCTGGCGTGCAGCGGCTGCATCACCTCCGACAGACCGTGCTTATCACCCAGCAGAGCCACGAGGAGC
 TGAAGAAGGTTCTAGATGCTAACAAGATGGCGGCACCCAGTCAGCAGAGGCTGGTTGTAGTTTCGGTCTC
 ACCACAGTCTAGAGCATCGCTGGCTGCACGTTTCAGCTGAATCCTACAGATACTGCCAGGAAATTAACC
 TCATTCTTAAAAAATAGGGGTGCACTTCGTCTTCGACACCGCCTTCTCAAGGCACTTCAGCCTCCTGG
 AGAGCCAGCGAGAGTTTGTGCGCGATTCCGAGGACAGGCCGACTGCAGACAGGGCGTCCCCTGCTGGC
 CTCTGCCTGCCAGGCTGGATCTGCTATGCCGAGAAGACTCACGGCAGCTTCATCCTCCCCACATCAGC
 ACCGCCCGGTCCCGCAGCAGGTATGGCTCCCTGGTCAAGGACTTCTTCGCCAGCAGCAGCACTTGA
 CCCCTGACAAGATCTACCACGTACAGTGATGCCTGCTATGACAAAAAGCTGGAAGCCTCCAGACCCGA
 CTTTTTCAACCAGGAGCACCAGACCGGATGTGGACTGTGCCTCACAAAGGAGAAGTTTTAGGTTG
 CTGGAGGAAGAGGGCGTCTCCCTCCCGACCTGGAACAGCCCTCTGGACAGCCTGTGCAGCGGTGCC
 CTGCAGAGGAGCCACCAGCCATCGGGGAGGGGCTCGGGGGGCTACCTGGAGCAGTGTTCGGCACGC
 GGCCCGAGAGCTTTTGAATCCATGTGGCTGAGGTTACCTACAAACCCCTGAGGAACAAAGACTTCCAG
 GAGGTGACTGGAGAAGGAGGGCCAGGTGCTGCTGCATTGCAATGGCGTACGGCTTCGCAACATCC
 AGAACCTGGTGCAGAGGCTCAAACGAGGGCGCTGCCCTACCACACTAGTGGAGGTATGGCTGCCCTC
 AGGCTGCCTGAACGGCGGGGGCCAGCTCCAGGCCCCAGACAGGCCAGCAGAGAGCTCCTCCAGCACGTG
 GAGAGACTGTACGGCATGGTCCGGGCTGAGGCGCCGAGGACGCGCCTGGGGTTCAGGAGCTGTACACAC
 ACTGGCTGCAGGGCACGGACTCGGAGTGTGACAGTTCGCTTGTGCATACGCAGTACCACGCCGTGGAGAA
 GGCCAGCACTGGCTGGGCATCCGGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206978 representing NM_022493
 Red=Cloning site Green=Tags(s)

MASPFSGALQLTDLDDFIGPSQECIKPVKVEKRAGSGVAKIRIEDDGSYFQINQDGGTRRLEKAKVSLND
 CLACSGCITSAETVLIQQSHEELKKVLDANKMAAPSQQRLVVVSVSPQSRASLAARFQLNPTDTARKLT
 SFFKKIGVHFVFDATAFSRHFSLLLESQREFVRRFRGQADCRQALPLLASACPGWICYAEKTHGSFILPHIS
 TARSPQQVMGSLVKDFFAQQQHLTPDKIYHVTVMPCYDKKLEASRPDFNQEHTRDVDCVLTGTEVFR
 LEEEGVSLPDLEPAPLDSLCSGASAEPTSHRGGSGGYLEHVFRHAARELFGIHVAEVTYKPLRNKDFQ
 EVTLEKEGQVLLHFAMAYGFRNIQNLVQRLKRGRCPYHYVEVMACPSGCLNNGGQLQAPDRPSRELLQHV
 ERLYGMVRAEPEDAPGVQELYTHWLQGTDSECAGRLHTQYHAVEKASTGLGIRW

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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

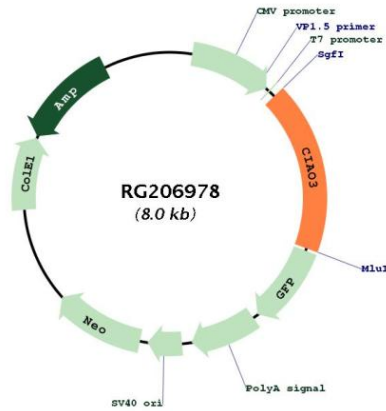
Locus ID: 64428

UniProt ID: [Q9H6Q4](#)

Cytogenetics: 16p13.3

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 RG206978