

Product datasheet for **RG207131**

CISD2 (NM_001008388) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CISD2 (NM_001008388) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CISD2
Synonyms: ERIS; Miner1; NAF-1; WFS2; ZCD2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207131 representing NM_001008388
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCTGGAGAGCGTGGCCCGTATCGTGAAGGTGCAGCTCCCTGCATATCTGAAGCGGCTCCCAGTCC
CTGAAAGCATTACCGGTTTCGCTAGGCTCACAGTTTCAGAATGGTTTCGGTTATTGCCTTTCCTTGGTGT
ACTCGCACTTCTGGCTACCTTGCAGTTCGTCCATTCTCCCGAAGAAGAAACAACAAGGATAGCTTG
ATTAATCTAAAATACAAAAGGAAAATCCGAAAGTAGTGAATGAAATAAACATTGAAGATTTGTGTCTTA
CTAAAGCAGCTTATTGTAGGTGTTGGCGTTCTAAAACGTTTCCTGCCTGCGATGGTTCACATAATAACA
CAATGAATTGACAGGAGATAATGTGGGTCCACTAATACTGAAGAAGAAAGAAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207131 representing NM_001008388
Red=Cloning site Green=Tags(s)
MVLESVARIVKVQLPAYLKRLPVPESITGFARLTVSEWLRLLPFLGVLALLGYLAVRPFLPKKKQKDSL
INLKIQKENPKVVNEINIEDLCLTKAAYCRCWRSKTFPACDGSNKHNELTGDNVGPLILKKKEV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001008388

ORF Size: 405 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001008388.5](#)

RefSeq Size: 1617 bp

RefSeq ORF: 408 bp

Locus ID: 493856

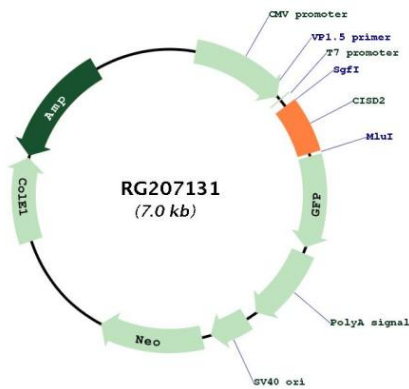
UniProt ID: [Q8N5K1](#)

Cytogenetics: 4q24

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a zinc finger protein that localizes to the endoplasmic reticulum. The encoded protein binds an iron/sulfur cluster and may be involved in calcium homeostasis. Defects in this gene are a cause of Wolfram syndrome 2. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RG207131