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Product datasheet for RC207131

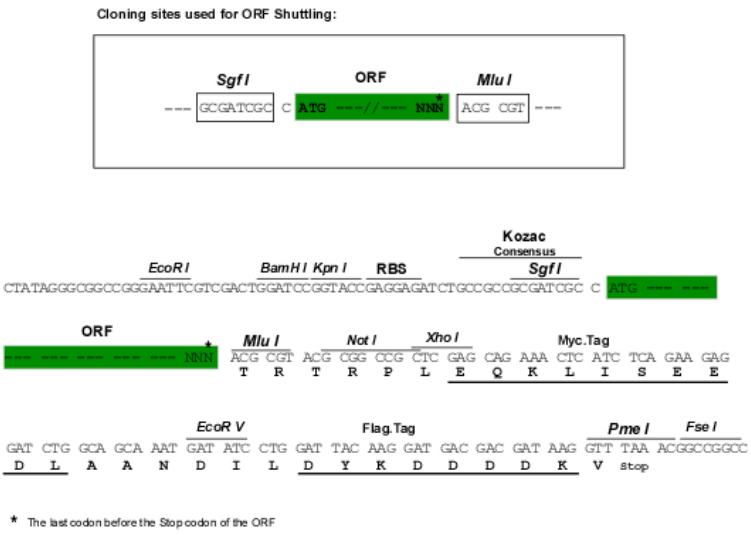
CISD2 (NM_001008388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CISD2 (NM_001008388) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CISD2
Synonyms:	ERIS; Miner1; NAF-1; WFS2; ZCD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207131 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTGCTGGAGAGCGTGGCCCGTATCGTGAAGGTGCAGCTCCCTGCATATCTGAAGCGGCTCCCAGTCC CTGAAAGCATTACCGGGTTCGCTAGGCTCACAGTTTCAGAATGGCTTCGGTTATTGCCTTTCCTTGGTGT ACTCGCACTTCTTGGCTACCTTGCAGTTCGTCCATTCCTCCCGAAGAAGAAACAACAGAAGGATAGCTTG ATTAATCTTAAAATACAAAAGGAAAATCCGAAAGTAGTGAATGAAATAAACATTGAAGATTTGTGTCTTA CTAAAGCAGCTTATTGTAGGTGTTGGCGTTCTAAAACGTTTCCTGCCTGCGATGGTTCACATAATAAACA CAATGAATTGACAGGAGATAATGTGGGTCCACTAATACTGAAGAAGAAAGAAGTA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC207131 protein sequence Red=Cloning site Green=Tags(s) MVLESVARIVKVQLPAYLKRLPVPESITGFARLTVSEWLRLLPFLGVLALLGYLAVRPFLPKKKQQKDSL INLKIQKENPKVVNEINIEDLCLTKAAYCRCWRSKTFPACDGSHNKHNELTGDNVGPLILKKKEV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6333_c08.zip
Restriction Sites:	SgfI-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.

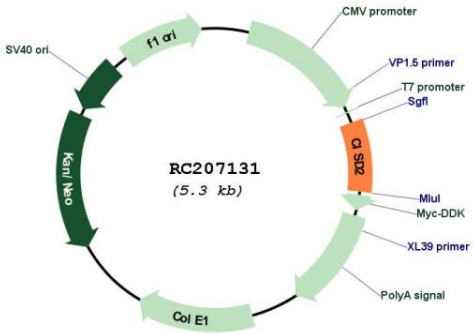
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

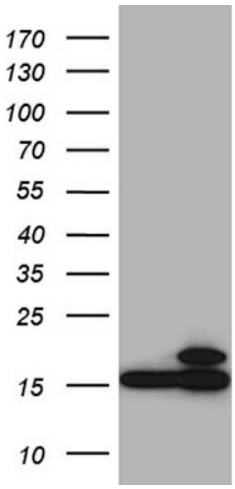
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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:	5892 bp
RefSeq ORF:	408 bp
Locus ID:	493856
UniProt ID:	Q8N5K1
Cytogenetics:	4q24
Protein Families:	Transmembrane
MW:	15.3 kDa
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]

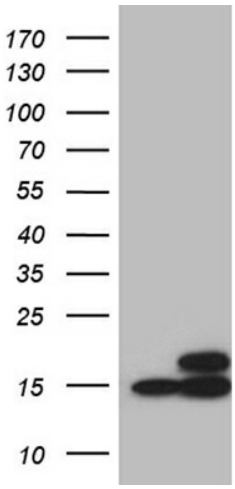
Product images:



Circular map for RC207131



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CISD2 (Cat# RC207131, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CISD2 (Cat# [TA810328])(1:2000).



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CISD2 (RC207131, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CISD2 (1:2000).