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Product datasheet for RC203308

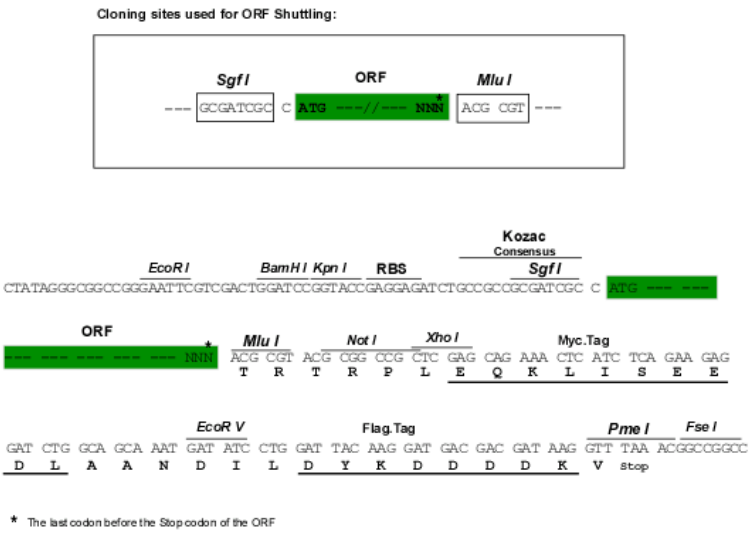
CISD1 (NM_018464) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CISD1 (NM_018464) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CISD1
Synonyms:	C10orf70; MDS029; mitoNEET; ZCD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203308 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTCTGACTTCCAGTTCCAGCGTACGAGTTGAATGGATCGCAGCAGTTACCATTGCTGCTGGGACAG CTGCAATTGGTTATCTAGCTTACAAAAGATTTTATGTTAAAGATCATCGAAATAAAGCTATGATAAACCT TCACATCCAGAAAGACAACCCCAAGATAGTACATGCTTTTGACATGGAGGATTTGGGAGATAAAGCTGTG TACTGCCGTTGTTGGAGGTCCAAAAAGTTCCCATTCTGTGATGGGGCTCACACAAAACATAACGAAGAGA CTGGAGACAATGTGGGCCCTCTGATCATCAAGAAAAAAGAAACT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC203308 protein sequence Red=Cloning site Green=Tags(s) MSLTSSSSVRVEWIAAVTIAAGTAAIGYLAYKRFYVKDHRNKAMINLHIQKDNPKIVHAFDMEDLGDKAV YCRCWRSKKFPFCDGAHTKHNEETGDNVGPLIIKKKET TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6034_a07.zip
Restriction Sites:	SgfI-MluI

View online »

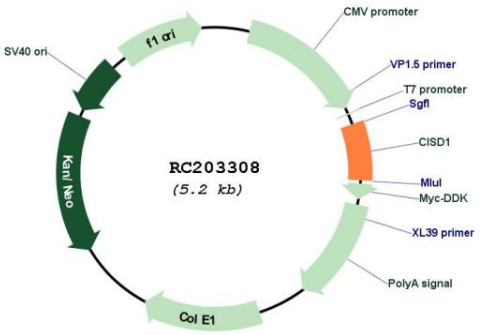
Cloning Scheme:



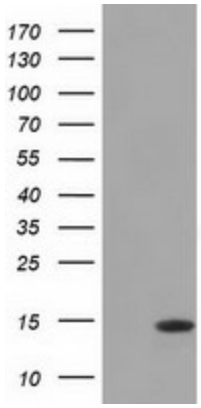
ACCN:	NM_018464
ORF Size:	324 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_018464.5
RefSeq Size:	2115 bp
RefSeq ORF:	327 bp

Locus ID:	55847
UniProt ID:	Q9NZ45
Cytogenetics:	10q21.1
Domains:	ZnF_CDGSH
Protein Families:	Transmembrane
MW:	12.2 kDa
Gene Summary:	This gene encodes a protein with a CDGSH iron-sulfur domain and has been shown to bind a redox-active [2Fe-2S] cluster. The encoded protein has been localized to the outer membrane of mitochondria and is thought to play a role in regulation of oxidation. Genes encoding similar proteins are located on chromosomes 4 and 17, and a pseudogene of this gene is located on chromosome 2. [provided by RefSeq, Feb 2012]

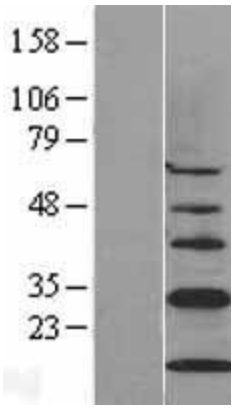
Product images:



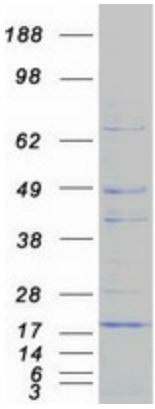
Circular map for RC203308



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CISD1 (Cat# RC203308, 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-CISD1(Cat# [TA500904]). Positive lysates [LY413042] (100ug) and [LC413042] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413042]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203308 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CISD1 protein (Cat# [TP303308]). The protein was produced from HEK293T cells transfected with CISD1 cDNA clone (Cat# RC203308) using MegaTran 2.0 (Cat# [TT210002]).