

Product datasheet for **MC206531**

Chchd4 (BC019405) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chchd4 (BC019405) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chchd4
Synonyms:	2410012P20Rik; 2810014D17Rik; AI838740
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC019405 GGCGAGGGAGGTCACGGCGTGAAGGTGTATCCGCTCCAGCCGCGCCCGCTGCCTCTGCGAGCTGCAGAGG ACTGTCCGGGAACAACCATGTCTACTGCCGGCAGGAAGGAAGGATCGGATCATATTTGTGACCAAGAA GACCATGAAACTCCTAGCAGTGCCGAGCTGGTGGCTGATGACCCCAATGATCCCTATGAGGAGCAGGGT TGATACTGCCTAACGGAGATATTAAGTGAATTGTCCATGTCTTGGGGGAATGGCCAGCGGGCCCTGTGG GGAGCAGTTCAAGTCTGCCTTCTCCTGCTTCCACTACAGCACAGAGGATATCAAGGGATCAGACTGTATA GACCAGTTCGGGCCATGCAAGAGTGCATGCAGAAGTACCCGGACCTCTATCCCAAGACGAGGAGGAGG AAGAGGAGGCAAAGCCAGTGGAGCCGGTGGAGGAGACAGCTGACACTAAGGTCTCTGCAGCCAAAGAGCA GGGGACAAGCTCTGAAGGCCACATGGCTGCCACTCACCATGGGACTTTCTGTACAATGCCTTTTGGTCA CCTTTGTGAAAGTTCTTCCCTCTGTGCACTGTAATATACAAAATAACTTATTTTAAATGATCAGGGTCT TGGCCGTATACACTGAAGAAAAGGGCGTGTGTGCACCTGTGCTGCATAAACCTGCCTTAAACATTAG TCCACTCCTGGATGTACTACTCTGTGATTGCCCTGGATTTTGCCACTTTGAAATAATGTGTTGAGACTTC TCAGCAACCAAAAAGTTGTTACTCAGGAAAGTTTATCGTGAGAAAGCTGACCTATTCTGATCCATTTTGGT ATCCCTTTTGGTAGATTTTACACCTCTTTTGGAAATTAAGTAAATAGATGCCAAAACCTCCTTAAAGAGTG GGTCCATTCTACTGGAAGAGGCTGGTGGTCAGGTGCTTGGTGGAGTACATGGGGCTGCTGCCTCGTTCC CGACAGCTAATTGTCTGTTTGTGTCCAGGCTCCAGTGCCTACAGCTGCAGGGTGGCATTGGATCCTGTG ACTCCCGTCTCCTAAGTGAAGGATGGGCTGGGTTTGCAGTTTATTGTTTGTCTAAGAGCCC TGGTTTGGGGCCCATGTTCACTCAGTTGTGATATTGAGGTGGGGACCTAGCTGCTCCAGAGCAGAAGCC AACAGAGGAATGTCTGAATGAAGTACTCAATTAAGAAAGAAACAATTTCTATCTGAAAAAAAAAAAAAAAAA A
Restriction Sites:	EcoRI-NotI
ACCN:	BC019405
Insert Size:	420 bp



[View online »](#)

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>BC019405</u> , <u>AAH19405</u>
RefSeq Size:	1261 bp
RefSeq ORF:	420 bp
Locus ID:	72170
Cytogenetics:	6 D1
Gene Summary:	Functions as chaperone and catalyzes the formation of disulfide bonds in substrate proteins, such as COX17, COX19 and MICU1. Required for the import and folding of small cysteine-containing proteins (small Tim) in the mitochondrial intermembrane space (IMS). Precursor proteins to be imported into the IMS are translocated in their reduced form into the mitochondria. The oxidized form of CHCHD4/MIA40 forms a transient intermolecular disulfide bridge with the reduced precursor protein, resulting in oxidation of the precursor protein that now contains an intramolecular disulfide bond and is able to undergo folding in the IMS. Reduced CHCHD4/MIA40 is then reoxidized by GFER/ERV1 via a disulfide relay system. Mediates formation of disulfide bond in MICU1 in the IMS, promoting formation of the MICU1-MICU2 heterodimer that regulates mitochondrial calcium uptake. [UniProtKB/Swiss-Prot Function]