

## Product datasheet for **SC108677**

### CHCHD3 (NM\_017812) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHCHD3 (NM_017812) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHCHD3
Synonyms:	Mic19; MICOS19; MINOS3; PPP1R22
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108677 sequence for NM_017812 edited (data generated by NextGen Sequencing)

```
ATGGGTGGGACCACCAGCACCCGCCGGTACCTTCGAGGCGGACGAGAATGAGAACATC
ACCGTGGTGAAGGCATCCGGCTTTCGGAAAATGTGATTGATCGAATGAAGGAATCCTCT
CCATCTGGTTCGAAGTCTCAGCGGTATTCTGGTGCTTATGGTGCCTCAGTTTCTGATGAA
GAATTGAAAAGAAGAGTAGCTGAGGAGCTGGCATTGGAGCAAGCCAAGAAAAGATCCGAA
GATCAGAAACGACTAAAGCAAGCCAAAGAGCTGGACCGAGAGAGGGCTGCTGCCAATGAG
CAGTTAACAGAGCCATCCTTCGGGAGAGGATATGTAGCGAGGAGGAACGCGCTAAGGCA
AAGCACCTGGCTAGGCAGCTGGAAGAGAAAGACCGAGTGCTAAAGAAGCAGGATGCATTC
TACAAAGAACAGCTGGCTAGACTGGAGGAGAGGAGCTCAGAGTTCTACAGAGTCACCACT
GAACAATATCAGAAAGCTGCTGAAGAGGTGGAAGCAAAGTTCAAGCGATATGAGTCTCAT
CCAGTCTGTGCTGATCTGCAGGCCAAAATTCTTCAGTGTACCGTGAGAACACCCACCAG
ACCTCAAATGCTCCGCTCTGGCCACCCAGTATATGCACTGTGTCAATCATGCCAAACAG
AGCATGCTTGAGAAGGGAGGATAA
```

Clone variation with respect to NM\_017812.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_017812 unedited  
 AAGCTCAGGGATTTGTNAATACGACTTTACTAGNAGGGCGGCCGNAATTCGGCACGAG  
 GCCTTGCTCCCGCTGTNGCGGAAAAAATCCAGGCCCTTCCACGCGCTGTGGGTGCGG  
 GGGCCCGAAGTCTCGTGGTCCCGCTAGGTCTCCGCTGGGGCAGGAACCGGAATCAT  
 GGGTGGGACCACCAGCACCCGCCGGTACCTTCGAGGCGGACTATAATGAGAATCATC  
 CGTGGTGAAGGCATCCGGCTTTCGAAAAATGTATTGATCGAATGAAGGAATCCTCTCC  
 ATCTGGTTCGAAGTCTCAGCGTATTCTGGTCTTATGGTGCCTCAGTTTCTGATGAAGA  
 ATTGAAAAGAAGAGTAGCTGAGGAGCTGGCATTGGAGCAAGCCAAGAAAGAAATCCGAAGA  
 TCAGAAACGACTAAAGCAAGCCAAGAGCTGGACCGAGAGAGGGCTGCTGCCAATGAGCA  
 GTTAACCAGAGCCATCCTTCGGGAGAGGATATGTAGCGAGGAGGAACGCGCTAAGGCAAA  
 GCACCTGGCTAGGCAGCTGGAAGAGAAAGACCGAGTGCTAAAGAAGCAGGATGCATTCTA  
 CAAAGAACAGCTGGCTAGACTGGAGGAGAGGAGCTCAGAGTTCTACAGAGTCACCACTGA  
 ACAATATCAGAAAGCTGCTGAAGAGGTGGAAGCAAAGTTCAAGCGATATGAGTCTCATCC  
 AGTCTGTGCTGATCTGCANGCCAAAATTCTTCAGTGTACCGTGAGAACACCCACCAGAC  
 CCTCANATGCTCCGCTCTGGCCACCCAGTATATGCACTGTGTCAATCATGCCAAACAGAG  
 CATGCTTGAGAAGGGGAGATAAAAACTTTCAGAAATGAGCAAACACCATCAACGTTAATT  
 CCAGAGATGGAACATTTTTTTTTCTAGTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_017812 unedited  
 ATGACCGCGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTGCAGAAAAATATT  
 TATTATTGATAGTGAGTGAAGTAAAGATGTGAGTATTCCTACTATAGAGTTTTATCAGCCA  
 AGGTTGCCTTCATATTGATAAAAAATACCTTATCTCACTTGAATCATAAACATTATTCCA  
 GTAGAAGAGGTACATTTCTCTCTTTTTGTCTTCTTGCCTGTATAATCACCATAATAAG  
 TTATAATGAAATAGCTCTTACATAAATCAAAGGAGAAAAGAAAGACAAAACCAACATGCCA  
 CAGCCTAGACAATTCCATCCAGCACTGCTGCCTCCAGATCTGTTTTCTGGCTCTCTCCAC  
 CCAGCACTGCTGCCCTCGGATCTATGTTTTCTGGCTCTCTCTCGCCCCACTCCAATTA  
 TTAGCCCCCAACCCATCTACTTTGTTAGGGTGGAGTTTACCACAAATGATGGGGCTTG  
 TTCAGAAGAGAAACATTTATGGTCAGTGAAGTTGAATAGAAAGTACCAAAAGGTGGAG  
 AGGGCTGCCCTTCTTTTTAATCATCATAAGAGGGTTACTAATACTCAAGAGTGCCTT  
 TAATGACTGATCCCTGATCAAGGCTTTGGCCCTTCAAAGTCTGCTGTTCAAACGTGAA  
 ATGATTCTGCTGAATCCATTCTTGATGTCTCTTTATGGGCTTCTCATTAGTGGCCTTC  
 TCTTCAATGGGTTGTTTTCTCACTANGAAAAAAATGTCCATCTCTGGAATTAACGTGATG  
 GTGTTTGCTCATCTGAAGTTTTATCCTNCCTCTCAAGCTGCTCTGTTTGCATGATGACCA  
 GTGCATTACTGGGTGCCACAACGACATTTGAGTTCTGTGGTGTCTACGGTACACTGAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_017812

**Insert Size:**

1580 bp

**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:**

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\\_017812.1](#), [NP\\_060282.1](#)

**RefSeq Size:** 1623 bp

**RefSeq ORF:** 684 bp

**Locus ID:** 54927

**UniProt ID:** [Q9NX63](#)

**Cytogenetics:** 7q32.3-q33

**Gene Summary:** The protein encoded by this gene is an inner mitochondrial membrane scaffold protein. Absence of the encoded protein affects the structural integrity of mitochondrial cristae and leads to reductions in ATP production, cell growth, and oxygen consumption. This protein is part of the mitochondrial contact site and cristae organizing system (MICOS). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.