

## Product datasheet for **SC308703**

### CHCHD10 (NM\_213720) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CHCHD10 (NM\_213720) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CHCHD10  
**Synonyms:** C22orf16; FTDALS2; IMMD; MIX17A; N27C7-4; SMAJ  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC308703 representing NM\_213720.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCTCGGGGAAGCCGAGCGCGGCCTCCCGGCCAGCCAGCCGCCAGCCGCGCCCTCTGCCACCCG
CCCGCGCACCCACCGCCCTCGGCAGCCGCCAGCCCGCCCTTCGGGCCAGCCGGGGCTCATGGCT
CAGATGGCGACCACGGCCGAGGGTAGCCGTGGGCTCGGCTGTGGGACACGTATGGGCAGCGCCCTG
ACCGGAGCCTTCAGCGGGGGAGCTCGGAGCCCTCCAGCCTGCTGTCCAGCAGGCCCCACCCCGCT
GCCCGCCAGCCCTGCAGATGGGCCCCTGCGCCTACGAGATCAGGCAGTTCCTGGACTGTTCCACCACT
CAGAGTGACCTGTCCCTGTGTGAGGGCTTCAGCGAGGCCCTGAAGCAGTGCAAGTACTACCATGGTCTG
AGCTCCCTGCCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_213720  
**Insert Size:** 429 bp



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**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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_213720.2](#)

**RefSeq Size:** 718 bp

**RefSeq ORF:** 429 bp

**Locus ID:** 400916

**UniProt ID:** [Q8WYQ3](#)

**Cytogenetics:** 22q11.23

**MW:** 14.1 kDa

**Gene Summary:** This gene encodes a mitochondrial protein that is enriched at cristae junctions in the intermembrane space. It may play a role in cristae morphology maintenance or oxidative phosphorylation. Mutations in this gene cause frontotemporal dementia and/or amyotrophic lateral sclerosis-2. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 7 and 19. [provided by RefSeq, Aug 2014]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in an isoform (b) that is shorter than isoform a.