

## Product datasheet for RC209077

### CHCHD10 (NM\_213720) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CHCHD10 (NM\_213720) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**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)  
**ORF Nucleotide Sequence:** >RC209077 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCCTCGGGGAAGCGCAGCGCGGCTCCCGGCCAGCCAGCCGCCAGCCGCGCCCTCTGCCACCCGC  
 CCGCGCACCCACCGCCCTCGGCAGCGCCCCAGCCCCGCCCCCTCGGGCCAGCCGGGGCTCATGGCTCA  
 GATGGCGACACGCGCCAGGGGTAGCCGTGGGCTCGGCTGTGGGACACGTCATGGGCAGCGCCCTGACC  
 GGAGCCTTCAGCGGGGGAGCTCGGAGCCCTCCAGCCTGCTGTCCAGCAGGCCCCACCCCGCTGCC  
 CCCAGCCCTGCAGATGGGGCCCTGCGCCTACGAGATCAGGCAGTTCTGGACTGTTCCACCACTCAGAG  
 TGACCTGTCCCTGTGTAGGGCTTCAGCGAGGCCCTGAAGCAGTGCAAGTACTACCATGGTCTGAGCTCC  
 CTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209077 protein sequence  
 Red=Cloning site Green=Tags(s)

MPRGRSAASRPASRPAAPSAHPPAHPPPSAAAPAPAPSGQPGLMAQMATTAAGVAVGSAYGHVMSALT  
 GAFSGGSSEPSQPAVQQAPTAAAPQPLQMGPCAYEIRQFLDCSTTQSDLCEGFSEALKQCKYYHGLSS  
 LP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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## Cloning Scheme:



ACCN: NM\_213720

ORF Size: 426 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](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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

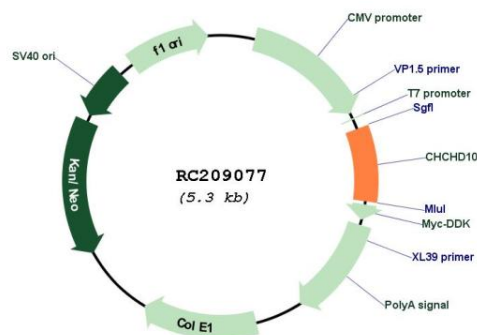
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

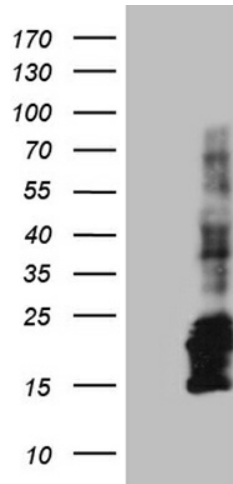
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_213720.3</u>
<b>RefSeq Size:</b>	718 bp
<b>RefSeq ORF:</b>	429 bp
<b>Locus ID:</b>	400916
<b>UniProt ID:</b>	<u>Q8WYQ3</u>
<b>Cytogenetics:</b>	22q11.23
<b>MW:</b>	14.1 kDa
<b>Gene Summary:</b>	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]

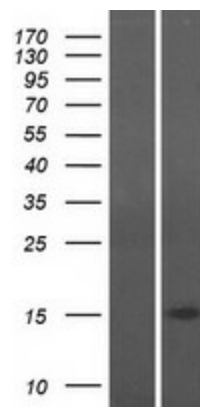
## Product images:



Circular map for RC209077



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CHCHD10 (Cat# RC209077, 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-CHCHD10 (Cat# [TA811798])(1:2000). Positive lysates [LY403738] (100ug) and [LC403738] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403738]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209077 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).