

Product datasheet for **RG236073**

CHCHD10 (NM_001301339) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CHCHD10 (NM_001301339) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CHCHD10
Synonyms: C22orf16; FTDALS2; IMMD; MIX17A; N27C7-4; SMAJ
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236073 representing NM_001301339.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCTCGGGGAAGCGCAGCGCGGCCTCCCGCCAGCCAGCCGCCAGCCGCGCCCTCTGCCACCCG
CCCGCGCACCCACCGCCCTCGGCAGCGCCCGCCAGCCCGCCCGCCCTTCGGGCCAGCCGGGGCTCATGGCT
CAGATGGCGACCACGGCCGAGGGTAGCCGTGGGCTCGGCTGTGGGACACGTATGGGCAGCGCCCTG
ACCGGAGCCTTCAGCGGGGGAGCTCGGAGCCCTCCAGCCTGCTGTCCAGCAGCCTTTGCACTGTAC
CCCCAGGCCCCACCCCGCTGCCCGCCAGCCCTGCAGATGGGGCCCTGCGCCTACGAGATCAGGCAG
TTCTGGACTGTCCACCACTCAGAGTGACCTGTCCCTGTGTGAGGGCTTCAGCGAGGCCCTGAGCAG
TGCAAGTACTACCATGGTCTGAGCTCCCTGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236073
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MPRGSRSAASRPASRPAAPSAHPPAHPPPSAAAPAPAPSGQPGLMAQMATTAAGVAVGSVAVGHVMSAL
TGAFSGGSSEPSQPAVQQPLALYPQAPTPAAPQLQMGPAYEIRQFLDCSTTQSDLSLCEGFSEALKQ
CKYYHGLSSLP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_001301339

ORF Size: 447 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).

RefSeq: [NM_001301339.2](#)

RefSeq Size: 739 bp

RefSeq ORF: 450 bp

Locus ID: 400916

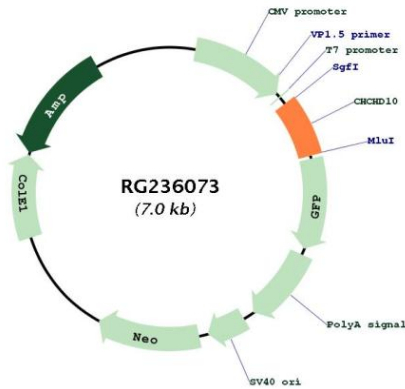
UniProt ID: [Q8WYQ3](#)

Cytogenetics: 22q11.23

MW: 15.4 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]

Product images:


Circular map for RG236073