

Product datasheet for **SC312197**

MIA40 (CHCHD4) (NM_144636) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIA40 (CHCHD4) (NM_144636) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHCHD4
Synonyms:	MIA40; TIMM40
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_144636, the custom clone sequence may differ by one or more nucleotides ATGCCTGTGTCGTATTCATCTGTGACCACCAGGTACTACCACAGAGCTGGAGCTGAGGAA GGGAAGGATCGAATCATATTTGTAACCAAAGAAGATCATGAAACTCCAAGCAGTGAGAA TTGGTGGCTGATGACCCCAACGATCCATACGAGGAGCATGGATTGATACTGCCAAATGGA AACATTAAGTGGAACTGCCCATGCCTTGGGGGAATGGCCAGCGGTCCTGTGGAGAACAG TTTAAGTCAGCCTTTTCCTGCTTCCACTATAGCACGGAGGAGATCAAGGGGTCAGACTGT GTAGACCAGTTCGGGCCATGCAGGAATGCATGCAGAAATACCCAGACCTCTATCCCAA GAGGATGAGGATGAGGAAGAGGAAAGAGAGAAGAAGCCAGCAGAAACAAGCAGAAGAAACA GCTCCCATGAGGCCACTGCAACCAAAGAAGAGGAGGGATCAAGT
Restriction Sites:	Please inquire
ACCN:	NM_144636
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 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](#)



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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:	<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:	NM_144636.1 , NP_653237.1
RefSeq Size:	1549 bp
RefSeq ORF:	468 bp
Locus ID:	131474
UniProt ID:	Q8N4Q1
Cytogenetics:	3p25.1
Gene Summary:	<p>CHCHD4, a component of human mitochondria, belongs to a protein family whose members share 6 highly conserved cysteine residues constituting a -CXC-CX(9)C-CX(9)C- motif in the C terminus (Hofmann et al., 2005 [PubMed 16185709]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (2) contains an alternate segment for the 5' coding region and uses a downstream start codon, compared to variant 1. Variant 2 is found at a much lower frequency than variant 1. The predicted protein (isoform 2) is longer and has a distinct and longer N-terminus, compared to isoform 1.</p>