

## Product datasheet for **SC126068**

### CHCHD2 (BC066331) Human Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | CHCHD2 (BC066331) Human Untagged Clone  |
| Tag:                 | Tag Free  |
| Symbol:              | CHCHD2  |
| Synonyms:            | 16.7kD protein; aging-associated gene 10 protein; C7orf17; coiled-coil-helix-coiled-coil-helix domain containing 2  |
| Vector:              | <u>pCMV6-XL5</u>  |
| E. coli Selection:   | Ampicillin (100 ug/mL)  |
| Cell Selection:      | None  |
| Fully Sequenced ORF: | >OriGene sequence for BC066331 edited<br>GTTGTACACGTCCGGAGGCCTAGCCGTCGCGTACCTAGGATGCCGCGTGGAAGCCGAAG<br>CCGCACCTCCCGCATGGCCCTCCGGCCAGCGGGCCCCCAGATGAGAGCTGCACCCAG<br>GCCAGCACCAGTCGCTCAGCCACCAGCAGCGGCACCCCATCTGCAGTTGGCTCTTCTGC<br>TGCTGCGCCCGCAGCCAGTTCTGATGGCCAGATGGCAACCACTGCAGCTGGCGTGGC<br>TGTGGGCTCTGCTGTGGGGCACACATTGGGTACGCCATTACTGGGGGCTTCAGTGGAGG<br>AAGTAATGCTGAGCCTGCGAGGCCTGACATCACTTACCAGGAGCCTCAGGGAACCCAGCC<br>AGCACAGCAGCAGCAGCCTTGCCTCTATGAGATCAAACAGTTTCTGGAGTGTGCCAGAA<br>CCAGGGTGACATCAAGCTCTGTGAGGGTTTCAATGAGGTGCTGAAACAGTGCCGACTTGC<br>AAACGGATTGGCCTAATGAAGAAGTTCAACCTGGAGAGATGAAAATCAGCTCTCATAAC<br>TAAGTTAATTTAGTATAAAAATAGAATTGATAGTGAGGGTATAAAGTGTAAACATCAGTT<br>AAACCTCTCCTGTATTCTAGCTTCTTGTCTCAGAATTGAAATGGAAGTGGGTGTCCC<br>TACTCTGTAGAATCTGGGACTGGCAAATGTTTGTGTGGCCTCCTTAAACTAGCTGTTAT<br>GTTATGATTTTATTCTTTGTGAGTTAATTAGAATAAAGTCATTTTCTTCCAAGGAAAAAA<br>AAAAAAA |



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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for BC066331 unedited<br>GGGTCAAATTTGTATACGACTCATATAGGCGGCCGCATAACTTCGTATAGCATACATTA<br>TACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGTTGTCA<br>CACGTCCGGAGGCCTAGCCGTGCGTACCTAGGATGCCGCGTGAAGCCGAAGCCGCACC<br>TCCCGCATGGCCCTCCGGCCAGCCGGGCCCTCAGATGAGAGCTGCACCCAGGCCAGCA<br>CCAGTCGCTCAGCCACCAGCAGCGGCACCCCATCTGCAGTTGGCTCTTCTGCTGCTGCG<br>CCCCGGCAGCAGTTCTGATGGCCAGATGGCAACCACTGCAGCTGGCGTGGCTGTGGGC<br>TCTGCTGTGGGGCACACATTGGGTCACGCCATTACTGGGGCTTCAGTGGAGGAAGTAAT<br>GCTGAGCCTGCGAGGCCTGACATCACTTACCAGGAGCCTCAGGGAACCCAGCCAGCACAG<br>CAGCAGCAGCCTTGCCCTATGAGATCAAACAGTTTCTGGAGTGTGCCAGAACCAGGGT<br>GACATCAAGCTCTGTGAGGGTTTCAATGANGTGCTGANACAGTGCCGACTTGCANACGGA<br>TTGGCCTAATGAAGAAGTTCAACCTGGAGAGATGGAAAATCAGCTCTCATAACTAAGTTA<br>ATTTAGTATAANAATAGAATTGATAGTGAGGGTATAAAGTGAACCATCAGGTTAACCTC<br>TCCTGTCATTCTAGCTTCCCTTGTTCAGAATTGAATGGAAGTGGGTGCCCTACTCTGT<br>AGAATCTGGGACTGGGCAAATGTTGTGTGGCCNCTTAACTAGCTGTTATGGTATGAT<br>TTTAATCCTTGNGAGTAAATTANAATAAGTCATTTTCTCCAGGAAAAAAAAAAAAA<br>ACTCN |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | BC066331  |
| <b>OTI Disclaimer:</b>              | 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).  |
| <b>Components:</b>                  | 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).  |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
| <b>RefSeq:</b>                      | <a href="#">BC066331.1</a> , <a href="#">AAH66331.1</a>   |
| <b>RefSeq Size:</b>                 | 789 bp  |
| <b>Locus ID:</b>                    | 51142   |
| <b>Cytogenetics:</b>                | 7p11.2  |

**Gene Summary:**

The protein encoded by this gene belongs to a class of eukaryotic CX(9)C proteins characterized by four cysteine residues spaced ten amino acids apart from one another. These residues form disulfide linkages that define a CHCH fold. In response to stress, the protein translocates from the mitochondrial intermembrane space to the nucleus where it binds to a highly conserved 13 nucleotide oxygen responsive element in the promoter of cytochrome oxidase 4I2, a subunit of the terminal enzyme of the electron transport chain. In concert with recombination signal sequence-binding protein J, binding of this protein activates the oxygen responsive element at four percent oxygen. In addition, it has been shown that this protein is a negative regulator of mitochondria-mediated apoptosis. In response to apoptotic stimuli, mitochondrial levels of this protein decrease, allowing BCL2-associated X protein to oligomerize and activate the caspase cascade. Pseudogenes of this gene are found on multiple chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]