CHCHD2 cDNA Clone – Coiled-Coil-Helix-Coiled-Coil-Helix Domain Containing 2 (Human)

PRODUCT OVERVIEW

Product Name	CHCHD2, cDNA Clone
Full Product Name	CHCHD2 cDNA Clone
Product Gene Name	CHCHD2 cdna clone
Sequence	atgccgcgtg gaagccgaag ccgcacctcc cgcatggccc ctccggccag ccgggcccct cagatgagag ctgcacccag gccagcacca gtcgctcagc caccagcagc ggcacccca tctgcagttg gctcttctgc tgctgcgccc cggcagccag ttctgatggc ccagatggca accactgcag ctggcgtggc tgtgggctct gctgtggggc acacattggg tcacgccatt actgggggct tcagtggagg aagtaatgct gagcctgcga ggcctgacat cacttaccag gagcctcagg gaacccagcc agcacagcag cagcagcctt gcctctatga gatcaaacag tttctggagt gtgcccagaa ccagggtgac atcaagctct gtgagggttt caatgaggtg ctgaaacagt gccgacttgc aaacggattg gcctaa
Molecular Weight	15,513 Da
OMIM	616244
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CHCHD2 cdna clone	MBS1267443 is a cDNA clone targeting CHCHD2.
Other Notes	Small volumes of CHCHD2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHCHD2. It may not necessarily be applicable to this product.

NCBI GI #	42542701
NCBI GeneID	51142
NCBI Accession #	BC066331
UniProt Secondary Accession #	Q498C3; Q6NZ50
UniProt Related Accession #	Q9Y6H1
NCBI Official Full Name	Homo sapiens coiled-coil-helix-coiled-coil-helix domain containing 2, mRNA
NCBI Official Synonym Full Names	coiled-coil-helix-coiled-coil-helix domain containing 2
NCBI Official Symbol	CHCHD2
NCBI Official Synonym Symbols	MNRR1; NS2TP; PARK22; C7orf17
UniProt Protein Name	Coiled-coil-helix-coiled-coil-helix domain-containing protein 2
UniProt Synonym Protein Names	Aging-associated gene 10 protein; HCV NS2 trans-regulated protein; NS2TP
Protein Family	Coiled-coil-helix-coiled-coil-helix domain-containing protein
UniProt Gene Name	CHCHD2
UniProt Synonym Gene Names	C7orf17; NS2TP

UniProt Entry Name	CHCH2_HUMAN
NCBI Protein Information	coiled-coil-helix-coiled-coil-helix domain-containing protein 2
NCBI Summary for CHCHD2	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]
UniProt Comments for CHCHD2	CHCHD2: Transcription factor. Binds to the oxygen responsive element of COX4I2 and activates its transcription under hypoxia conditions (4% oxygen), as well as normoxia conditions (20% oxygen) (PubMed:23303788). {ECO:0000269|PubMed:23303788}. Up-regulated by hypoxia (4% oxygen) (at protein level). {ECO:0000269|PubMed:23303788}. Interacts with RBPJ. {ECO:0000269|PubMed:23303788} Protein type: Unknown function Chromosomal Location of Human Ortholog: 7p11.2 Cellular Component: mitochondrial intermembrane space; mitochondrion; nucleus Molecular Function: protein binding; sequence-specific DNA binding; transcription factor binding Biological Process: positive regulation of transcription from RNA polymerase II promoter Disease: Parkinson Disease 22, Autosomal Dominant
Research Articles on CHCHD2	**1.** CHCHD2 mutations might not be a common cause of PD in Chinese familial cases.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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