

CIB2 cDNA

Catalog Number: ATGD0223

PRODUCT INFORMATION

Catalog number

ATGD0223

Product type

cDNA

Species

Human

NCBI Accession No.

NP_006374.1

Alternative Names

DFNB48, KIP2, USH1J

mRNA Refseq

NM_006383.3

OMIM

605564

Chromosome location

15q24

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

564bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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The protein encoded by CIB2 is similar to that of KIP/CIB, calcineurin B, and calmodulin. The encoded protein is a calcium-binding regulatory protein that interacts with DNA-dependent protein kinase catalytic subunits (DNA-PKcs), and it is involved in photoreceptor cell maintenance. Mutations in this gene cause deafness, autosomal recessive, 48 (DFNB48), and also Usher syndrome 1J (USH1J). Alternative splicing results in multiple transcript variants.

DATA

Sequence nucleotides

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ATGGGGAACAAGCAGACCATCTTCACCGAAGAGCAGCTAGACAACCTACCAGGACTGCACCTTCTTCAATAAGAAGGACATC
CTCAAGCTGCATTCGCGATTCTATGAGCTGGCCCCAACCTCGTCCCAATGGACTACAGGAAGAGCCCCATCGTCCACGTG
CCCATGAGCCTCATCATCCAGATGCCAGAGCTCCGGGAGAATCCCTTCAAAGAAAGGATCGTGGCGGCGTTTTCCGAGGAT
GGTGAGGGGAACCTCACTTTCAACGACTTTGTGGACATGTTTTCCGTGCTCTGCGAGTCGGCTCCCCGAGAGCTCAAGGCA
AACTATGCCTTCAAGATCTATGACTTCAACACTGACAACCTCATCTGCAAGGAGGACCTGGAGCTGACGCTGGCCCCGGCTCA
CTAAGTCAGAGCTGGATGAGGAGGAGGTGGTGCTTGTGTGCGACAAGGTCATTGAGGAGGCTGACTTGGACGGTGACGGC
AAGCTGGGCTTTGCTGACTTCGAGGACATGATTGCCAAGGCCCTGACTTCCTCAGCACTTTCCACATCCGGATCTGA
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Transaction Sequence

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MGNKQTIFTE EQLDNYQDCT FFNKKDILKL HSRFYELAPN LVPMDYRKSP IVHVPMSLII QMPELRENPF KERIVAAFSE
DGEGLTFND FVDMFVLCE SAPRELKANY AFKIYDFNTD NFICKEDLEL TLARLTKSEL DEEEVVLVCD KVIEEADLDG
DGKLGFAFDFE DMIAKAPDFL STFHIRI
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