

Product datasheet for **RC227433**

CCDC42B (CFAP73) (NM_001144872) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CCDC42B (CFAP73) (NM_001144872) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CCDC42B
Synonyms: CCDC42B; MIA2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC227433 representing NM_001144872
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGCGGTGCCCTGGGAGGAATATTTCCGACTGGCTTTGCAAGAGAACTGTCTACAAAGCTGCCAGAGC
 AGGCTGAGGATCATGTCCCACCACTACTGCGTCTCCTGGAGAAGAGGCAAGAGCTGGTAGATGCAGACCA
 GGCCCTGCAGGCCAGAAGGAGGTGTTCCGCACCAAGACGGCAGCCCTGAAACAGCGTTGGGAACAGCTG
 GAACAAAAGGAGCGGGAGCTAAAGGGATCGTTCATCCGCTTTGACAAGTTTTTGCAGGACTCCGAGGCC
 GCGCAATCGCGCGCTGCGGAGGGCGGGAGGAGAGGCACCAGGCGGGCCGTCGGGAGGTGGAGGCGCT
 GCGTCTGTGGACCCAGCTCCAGGAGCTACGGCGGGAACACGCGCGCTGACGCGCCGGCTTAAGCGCCTG
 GAGCCCTGCGCGCGCTGCTGGAGCAAGCGCTGGAGCTGCTGCCCGGTTCCAAGAGTTCCGGAGCTGG
 TGGCGCGTTCGACGGCCTGGCCGAGACGACGGCGCGCTGAGGCTCAGGGAGCGCGAGCAGCTCGCGGA
 GCTGGAGGCGGCGGAGCGCGGCTGCAGCAGCTGCGGGACGCCTGGCCGGACGAGGTGCTCGCACAGGGC
 CAGCGGCGGGACAGCTGCAGGAGCGCTGGAGGCTGCCAGGGAGCGTACGCTGCAGTGGGAATCCAAGT
 GGATTCAGATTCAGAACACAGCAGCGGAGAAGACTCTGCTCCTGGGACGACGAGGATGGCTGTGCTCAA
 CCTGTTCCAGCTAGTGTGCCAGCATCAGGGGACGCTCCCACCTGGACATCGAGGACACGGAGGGACAG
 CTAGAGCACGTGAAGCTGTTTCATGCAGGACCTCTGCCATGCTGGCCGGCTGGGTGAGGCTGAGCCTG
 CAGCCCCGCTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227433 representing NM_001144872
Red=Cloning site Green=Tags(s)

MAVPWEEYFRLALQEKLSTKLPEQAEDHVPPVLRLLLEKRQELVDADQALQAQKEVFRTKTAALKQRWEQL
 EQKERELKGSFIRFDKFLQDSEARRNRALRRAAEERHQAGRREVEALRLWTQLQELRREHARLQRRRLKRL
 EPCARLLEQALELLPGFQEVPELVARFDGLAETQAAALRLREREQLAELEAARARLQQLRDADWPDEVLAQG
 QRRRAQLQERLEAARERTLQWESKWIQIQNTAAEKTLLLRGRSMVNLFLQVCQHQQPPTLDIEDTEGQ
 LEHVKLFMQDLSAMLAGLGQAEPAPAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8037_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001144872

ORF Size: 924 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).

Reconstitution Method:

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_001144872.2](#)

RefSeq ORF: 927 bp

Locus ID: 387885

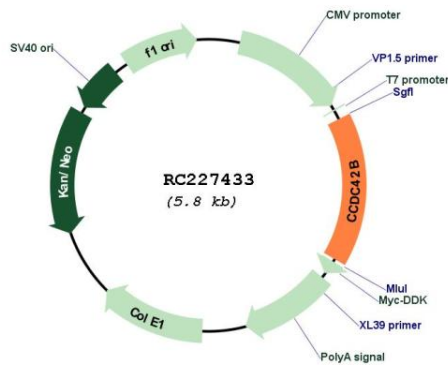
UniProt ID: [A6NFT4](#)

Cytogenetics: 12q24.13

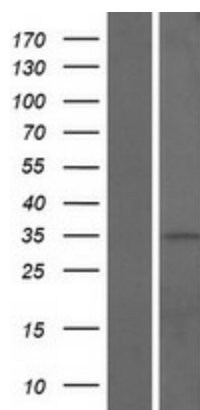
MW: 35.7 kDa

Gene Summary: May play a role in ciliary/flagellar motility by regulating the assembly and the activity of axonemal inner dynein arm.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227433



Western blot validation of overexpression lysate (Cat# [LY428534]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227433 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).