

Product datasheet for **RC216437**

IFT81 (NM_014055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT81 (NM_014055) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IFT81
Synonyms:	CDV-1; CDV-1R; CDV1; CDV1R; DV1; SRTD19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC216437 representing NM_014055
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAGTGTCAAATTAATTCATTATGGACAGTCTCAATAAGGAGCCCTTAGGAAGAACTATAATTTAA
TCACGTTTGATTCTGGAGCCAATGCAACTATTACAAGTTCTCAGTGATTCTGGCTGAGATTGACCC
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TTAGCTCGTTTTTAATAAACTTGAGGTACCAAGTGAAGTTTCTTCAGGATGAACTGTGGCTGACACC
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CCAAATATGAAACAAGCAAAAATGTGGCGTGATTTGGAACAATTAATGGAATGTAAGAAACAGTGCTTTT
TGAACAACAAGCCAACTTCCATTGGTCAGGTAATTCAGGAGGGTGGGGAGGACCGGCTAATACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216437 representing NM_014055
Red=Cloning site Green=Tags(s)

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MSDQIKFIMDSL NKEPFRKNYNLITFDSLEPMQLLQVLSVLAEIDPKQLVDIREEMPEQTAKRMLSLG
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DKQYEELMEAFKTLHKEYEQLKISGFSTAEIRKDISAMEEEKDQLIKRVEHLKKRVETAQNHQWMLKIAR
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ISRKKEAKAEELQEAKEKLASLEREASVKRNQTRFDGTEVLKGDEFKRYVYNKLRKSTVFKKKHQIIAE
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KKLYSLVSEKKSALASVIKELRQLRQKYQELTQECDEKKSQYDSCAAGLESNRSKLEQEVRRREECLQE
ESRYHYTNCMIKNLEVLRRATDEMKA YISSDQEQKRAIREQYTKNTAEQENLGKKLREKQKVIRESHG
PNMKQAKMWRDLEQLMECKKQCFLKQSQTSIGQVIQEGGEDRLIL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6678_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014055

ORF Size: 2028 bp

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](#)

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_014055.4](#)

RefSeq Size: 3160 bp

RefSeq ORF: 2031 bp

Locus ID: 28981

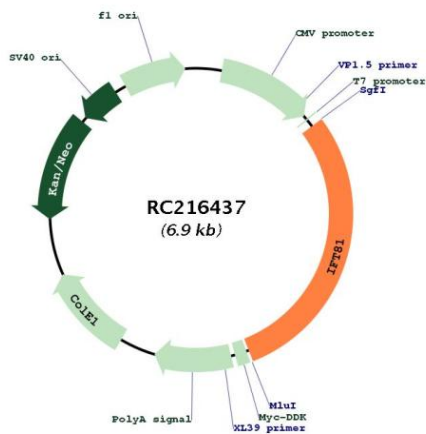
UniProt ID: [Q8WYA0](#)

Cytogenetics: 12q24.11

MW: 79.7 kDa

Gene Summary: The protein encoded by this gene, together with IFT74, forms a tubulin-binding module of intraflagellar transport complex B. This module is involved in transport of tubulin within the cilium, and the encoded protein is required for ciliogenesis. Mutations in this gene are a cause of short-rib polydactyly syndromes. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RC216437