

Product datasheet for **SC126823**

IFT81 (NM_014055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT81 (NM_014055) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFT81
Synonyms:	CDV-1; CDV-1R; CDV1; CDV1R; DV1; SRTD19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126823 sequence for NM_014055 edited (data generated by NextGen Sequencing)

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ATGAGTGATCAAATTAATTCATTATGGACAGTCTCAATAAGGAGCCCTTTAGGAAGAAC
TATAATTTAATCACGTTTGATTCCTTGGAGCCAATGCAACTATTACAAGTTCTCAGTGAT
GTTCTGGCTGAGATTGACCCAAAGCAACTTGTGGATATCAGAGAGGAGATGCCAGAGCAG
ACAGCCAAACGAATGTTGAGCCTTCTTGGTATTCTTAAGTACAAACCTTCAGGAAATGCC
ACAGATATGAGTACTTTTCGTGAGGTTTGGTGATTGGAAGTAAACCTGTAATTTACCCA
GTGCTCCACTGGCTTCTTCAGAGGACTAATGAACTGAAGAAAAGAGCATATTTAGCTCGT
TTTTTAATAAACTTGAGGTACCAAGTGAGTTTCTTCAGGATGAAACTGTGGCTGACACC
AATAAACAGTATGAAGAGTTAATGGAAGCCTTTAAACTTTGCATAAAGAATATGAGCAG
CTCAAGATATCTGGATTTTCTACAGCAGAAATAAGAAAGGATATCAGTGCATGGAAGAA
GAAAAGGATCAGCTCATTAAGAGAGTTGAACATTTGAAGAAAAGGGTTGAGACAGCTCAG
AATCATCAATGGATGCTTAAAATAGCAAGGCAACTTCGAGTTGAAAAAGAGAGAGAAGAA
TATCTTGCACAACAGAAACAGGAACAAAAGAATCAGCTATTTTCATGCAGTGCAAAGATTG
CAAAGAGTACAAAACAGCTGAAAAGCATGCGCCAAGCTGCAGCAGATGCAAAGCCTGAA
AGTTTAAATGAAGAGGCTAGAGGAGGAGATAAAATTTAATTTATATATGGTAACTGAAAAA
TTTCCTAAAGAATTAGAAAATAAGAAAAAGGAATTACATTTTTTACAAAAAGTAGTTTCA
GAGCCAGCTATGGGCCATTCTGATCTTCTTGAACCTGAACTCTAAAATAAATGAAATAAAC
ACAGAAATTAACCAAGTTGATTGAAAAGAAAATGATGAGAAATGAGCCCATTGAAGGCAAA
CTCTCACTGTATAGGCAACAGGCATCTATCATTCCCGTAAAAAGAAGCCAAAGCTGAG
GAACCTCAGGAGGCCAAGGAGAAGTTAGCCAGCCTAGAGAGAGAAGCATCAGTAAAGAGA
AATCAGACCCGTGAATTTGATGGTACTGAAGTTTTAAAGGGAGATGAGTTCAAACGGTAT
GTCAATAAACTTCGAAGCAAGAGTACAGTTTTTCAAAAAGAAGCATCAGATAATAGCTGAA
CTTAAAGCTGAATTCGGTCTTTTGCAGAGGACTGAAGAACTTCTTAAGCAACGTCATGAA
AATATTCAACAACAACACTGCAAACTATGGAGGAGAAAAAGGGTATATCTGGATATAGTTAC
ACCCAAGAAGAGCTAGAAAGAGTATCTGCACTGAAGAGTGAAGTTGATGAAATGAAAGGA
CGAACATTGGATGATATGTCTGAAATGGTAAAAAACTGTATTCTTGGTATCTGAAAAG
AAGTCAGCTCTTGCCTCAGTTATAAAAAGAGCTACGACAGTTGCGTCAAAAATATCAAGAA
CTGACCCAGGAGTGTGATGAAAAGAAATCCCAGTATGATAGCTGTGCAGCAGGCCTCGAA
AGCAATCGGTCCAAATTAGAACAGGAAGTTAGAAGACTCCGTGAAGAATGTCTTCAAGAA
GAAAGTAGATACCATTATACAAATTGTATGATTAGAACCTAGAAGTTCAACTTCGTCGT
GCTACTGATGAGATGAAGGCATATATCTTCTGATCAACAAGAAAAAAGAAAGCAATT
AGGGAACAGTATACCAAAAATACTGCTGAACAAGAAAACCTTGGAAAGAACTTCGGGAA
AAACAAAAGTTATACGAGAAAGTCATGGTCCAAATATGAAAACAAGCAAAAATGTGGCGT
GATTTGGAACAATTAATGGAATGTAAGAAAACAGTGCTTTCTGAAAACAACAAGCCAAACT
TCCATTGGTCAGGTAATTCAGGAGGGTGGGGAGGACCGGCTAATACTGTGA

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Clone variation with respect to NM_014055.3
1197 a=>g

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_014055 unedited
ATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGAACGAGGCCGAAATAGAGAG
AGCTCCCGTCCTCTCTCGGTCTGATGCAGCACCTCGCAAGTGAAGGGGTCTGTCGGGT
TAAGCCCCGGATAGGGGAATCGGGCCCCTTCTGGGATTCGAGCGGATCCAGGCCGCTCC
CTGGAGGGATGAACTGTCGAGGGGCCAGGGCAGCCCCGCTAGAGGCCGGTCTGGGTGT
GGGTCCCCTGTCCCCTGTCCCAGCCCCGGGAGGGGGACACTATTTCTGGTACTCCCAG
GAGGCTGCGGGTCGATGCTCGTGCCAGCCTGGGACCCAGGCAGCACGGTTTCTCTCCAA
ATTGTGCCAGAGAACACGCACGTCTGGTTTTTCATTGTTCCCGCCTCCTGCGACTCGTT
TGTGGTTAAAATTATAAGACCTAATTATGAGTGATCAAATTAATTCATTATGGACAGTC
TCAATAAGGAGCCCTTTAGGAAGAACTATAATTTAATCACGTTTGATTCTTGGAGCCAA
TGCAACTATTACAAGTTCTCAGTGATGTTCTGGCTGAGATTGACCCAAAGCAACTGTGG
ATATCAGAGAGGAGATGCCAGAGCAGACAGCCAAACGAATGTTGAGCCTTCTTGGTATTC
TTAAGTACAACTTTCAGGANATGCCACAGATATGAGTACTTTTCGTAGGGTTTGGTGA
TTGGAAGTAACTGTAATTACCCAGTGTNCACTGGCTTCTTCAGAGGACTAATGAACT
GAAGAAAGAGCATATTAGCTCGTTTTTTATAAACTTGAGTACCAAGTGAGGTTCTTCAG
ATGAACTGTGGCTGACACAATAACGA
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_014055 unedited
TCCGCGGCCGATTCTANATCGAGTTTTTTTTTTTTTTTTTTTTAAATAGATATGAAATACG
TACCAAGTTTATTTGCCTTTAAATGATACAAACAGAAAAGACATGTTAGTCAAAATATTA
AATTTTCTTGCAATTTACAGAAGAAAAATAAACTGAAGTAAAAGTGTAGGAACTGCTGAA
CGTCAGATAAATGTTTCTCAGAACAAGAGATATTAGTTCCTAAAAGATTCTTCTAAAGT
TTTTTTAAAAGAGATTAAGAAAAACAGTAAGCCACTGGGTATTACATTCTAAAAAATA
CTACATGTTTCTAATGGACATATGTTTACATTTACAGATAGTAACTTAGTTTCCTGTC
TCATAAACTCAGAAGACGCCAGTGATGTCTAACTATGGAAAAGAAATAAAAGCCTCTTT
TTCATATGAAAAACATTCAACTAAATCTACCTAACATTATTTTCTATGAAACTTAA
TAAAGAAATGGCTCTTCTGAAAACAAAATGCTATACAAATCAGTTTCAAAAAGAAATACA
TTATGAGATTAGGCTTATAGCTAGTGGTATCAAGTAAAACCCCAACGATGACACAAGAA
TTCACAGTATTAGCCGGTCTCCACCCTCCTGAATTACCTGACCAATGGAAGTTTGGC
TTTGTGTTTTAGAAAAGCACTGTTTCTTACATTCCATTAATNGTCCAAATCACGCCACA
TTNNTGCTTGTTTCATATTTGGACCATGACCTTCTCGTATAACTTTTTGTTTTTCCCGAA
GTTTCTTTTACAGTTTTTCTTGTGACGAGTATTTGTATACTGTTCCCTAATGCCCTTC
TTTTTCTTGTGATCAGAAGAGAATATGCCCTTCAATTCATCAGTAGCACGACGAAAGTGA
ACTTCTAGGNTCTAATCATACAATTGGNATAAAGGNATCTACTTTCCTCTTGAACTTN
CTTACCGAGTCTTTTACTTCCCTGTCTAATTNGNACCGATGCTTTCNAGGNCTGCTGCA
CAGTTTATAAT
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Restriction Sites:

NotI-NotI

ACCN:

NM_014055

Insert Size:

3090 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](#)

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_014055.2](#), [NP_054774.2](#)

RefSeq Size: 3118 bp

RefSeq ORF: 2031 bp

Locus ID: 28981

UniProt ID: [Q8WYA0](#)

Cytogenetics: 12q24.11

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 3 both encode isoform 1.