

## Product datasheet for **SC107602**

### IFT81 (NM\_031473) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IFT81 (NM_031473) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFT81
Synonyms:	CDV-1; CDV-1R; CDV1; CDV1R; DV1; SRTD19
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107602 sequence for NM_031473 edited (data generated by NextGen Sequencing)

```

ATGAGTGATCAAATTAATTCATTATGGACAGTCTCAATAAGGAGCCCTTTAGGAAGAAC
TATAATTTAATCACGTTTGATTCCCTGGAGCCAATGCAACTATTACAAGTTCTCAGTGAT
GTTCTGGCTGAGATTGACCCAAAGCAACTTGTTGATATCAGAGAGGAGATGCCAGAGCAG
ACAGCCAAACGAATGTTGAGCCTTCTTGGTATTCTTAAGTACAAACCTTCAGGAAATGCC
ACAGATATGAGTACTTTTCGTCAGGGTTTGGTGATTGGAAGTAAACCTGTAATTTACCCA
GTGCTCCACTGGCTTCTCAGAGGACTAATGAACTGAAGAAAAGAGCATATTTAGCTCGT
TTTTTAATAAAACTTGAGGTACCAAGTGAGTTTCTTCAGGATGAACTGTGGCTGACACC
AATAAACAGTATGAAGAGTTAATGGAAGCCTTTAAAACCTTGCATAAAGAATATGAGCAG
CTCAAGATATCTGGATTTTCTACAGCAGAAATAAGAAAGGATATCAGTGCAATGGAAGAA
GAAAAGGATCAGCTCATTAAAGAGAGTTGAACATTTGAAGAAAAGGGTTGAGACAGCTCAG
AATCATCAATGGATGCTTAAAATAGCAAGGCAACTTCGAGTTGAAAAAGAGAGAGAAGAA
TATCTTGCAACAGAAACAGGAACAAAAGAATCAGCTATTTTCATGCAAGTCAAAGATTG
CAAAGAGTACAAAACAGCTGAAAAGCATGCGCCAAGCTGCAGCAGATGCAAAGCCTGAA
AGTTTAAATGAAGAGGCTAGAGGAGGAGATAAAATTTAATTTATATGTTAACTGAAAAA
TTTCTAAAGAATTAGAAAATAAGAAAAAGGAATTACATTTTTTACAAAAAGTAGTTTCA
GAGCCAGCTATGGGCCATTCTGATCTTCTTGAACCTGAATCTAAAATAAATGAAATAAAC
ACAGAAATTAACCAGTTGATTGAAAAGAAAATGATGAGAAATGAGCCCATTTGAAGGCAAA
CTCTCACTGTATAGGCAACAGGCATCTATCATTTCCCGTAAAAAAGAAGCCAAAGCTGAG
GAACTTCAGGAGGCCAAGGAGAAGTTAGCCAGCCTAGAGAGAGAAGCATCAGTAAAGAGA
AATCAGACCCGTGAATTTGATGGTACTGAAGTTTTAAAGGGAGATGAGAGACAGGATCTC
ACTCTGTACCCAGGCTGGAGTGCGGTGGTGTGATCATGGCTTACTGCAGCCTGAAACTC
TAGGCTCAAGTGATCCTCCTACCTCAGCCTCCTGA

```

Clone variation with respect to NM\_031473.3



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_031473 unedited  
 GGTTGACATTTTGAATACGACTCACTATNAGGGCGGGCCGNNCGCCTCGTGCCGAATTC  
 GGCACGAGGGCGGTCTAGAGCCCGGGCCCTCTGGGGGGTGGGAAACGGTTTCGTGAG  
 GAGAATTTGAGGTAACCTCGCAACTCGCGGTCCGGAAGCTCCTCTGACCCCGAAATAGAG  
 AGAGCTCCCGTCTCTCTCGTCCTGATGCAGCACCTCGAAGTGAAGGGTTCGTCCGG  
 GTTAAGCCCCGGATAGGGGAATCGGGCCCTTCTGGGATTCGAGCGGATCCAGGCCGCT  
 CCCTGGAGGGATGAACTGTCGAGGGGCCAGGGCAGCCCCGCTAGAGGCCCGGTCCGGT  
 GTGGGGTCCCCTGTCCCCTGTCCCGAGCCGGGAGGGGACACTATTTCTGGTACTCCC  
 AGGAGGCTGCGGGTTCGATGCTCGTGCCAGCCTGGGACCCAGGCAGCACGGTTTCTCTCCC  
 AAATTGTGCCAGAGAACACGCACGTCCTGGTTTTTCATTGTTCCCCGCTCCTGCGACTCG  
 TTTGTGGTAAAAATTATAAGACCTAATTATGAGTGATCAAATTAATTCATTATGGACAG  
 TCTCAATAAGGAGCCCTTTTAGAAGAACTATAATTTAATCACGTTTGATTCTTGGAGCC  
 AATGCACTATTACAAGTTCTCAGTGATGTTCTGGCTGAGATTGACCCAAAGCAACTTGT  
 GGATATCAGAGAGGAGATGCCAGAGCAGACAGCCAAACAATGTTGAGCCTTTTTGGTATT  
 CTTAAGTACAAACCTTCAGAAAAGCCACAGATATGAGTACCTTCTCCAGGGCTTGGTG  
 GATGGCAACTAACCTTGTATTTACCCAGGGCTCCACTGGCTTCTTTAGAGGACTAATGAA  
 CTGAACAACAGAGCTAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_031473 unedited  
 TGTACCGCGGCACGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTCCATATCCTTTAA  
 CTATTTATTATGTCTTTCTCAGTCTTTTATTCCCTCAGTTAATACATAATCAATCCCAC  
 TGTGTCTTTCTAGTCTTTTGTTCAGTTAATACATAATCAATTATTGATATGAAAGTT  
 TCCAGACTTTTTGTCCATTTTAGTCACCCTCATGTGGGACTCTGGCATGATTGTCTCTTA  
 AAACATGAAGTCAAAAATATAAAATAACTCCAGGCATAATCAGACCATAAACAGGATA  
 CTTTTTAAAAAATTAATGTAGTATAATCGTTTATGCATTTTTTAAAGCTGCGTTAGTAA  
 CAGATGATGTGTTGAATTGGCAAACAAAACCTGAATTCTACCACATTATTTATTATAA  
 TCCCATTAATGGCATTGTTTAAAGCACAGTGCCCTATCTACCAAGATGATTCTGAATT  
 ATAATTCATCATGTGTTTCAGGTTGACTATTTCTCCAGCTTTCTGTATGTGCAAACCT  
 ATTGATGACTCTACAGCCAGACTGCTAAATCCAACCTCTGGTTCTACTACTTACTAGCAA  
 TGGGGTGTGAGGCAAGTCAGCTTAAAACCTCTGCATGTCTCAGATCCTTTATCTGTAAAA  
 ACTGGGTATAGTAATTACAGCCAGGCGCAGGCTCAGCCTGNTATCCTAACACTCAGGA  
 TGCCGAAGTGGGATGACTGCTTGAGCCCGGAGTTTAAGACAGCCTGGGAAATAGTGAG  
 ACACATCTCTACAAACAAACAAAAAAGATANCTGGCATGTGGCTCGTGTGTATCCGA  
 GCTTCTCAGAGCTGAGTAGGAGATCACTGAGCCTCAGAGTTCAGCTGCGTAGCCTGATCA  
 CACACGCACTCACCTGGTGAAGATGAGACCTGCTCTATTCCTTAACCTCAGACTCAATCCG  
 GGCGATNCCTACGAGCTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_031473

**Insert Size:**

2900 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_031473.2](#), [NP\\_113661.2](#)

**RefSeq Size:** 2906 bp

**RefSeq ORF:** 1296 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 (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1. Variants 2 and 4 both encode isoform 2.