

Product datasheet for **RG201265**

IFT81 (NM_031473) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFT81 (NM_031473) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IFT81
Synonyms:	CDV-1; CDV-1R; CDV1; CDV1R; DV1; SRTD19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201265 representing NM_031473 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGATCAAATTAATTCATTATGGACAGTCTCAATAAGGAGCCCTTTAGGAAGAACTATAATTTAA
TCACGTTTGATTCCTGGAGCCAATGCACTATTACAAGTTCTCAGTGATGTTCTGGCTGAGATTGACCC
AAAGCACTTGTGGATATCAGAGAGGAGATGCCAGAGCAGACAGCCAAACGAATGTTGAGCCTTCTTGGT
ATTCCTAAGTACAAACCTTCAGGAAATGCCACAGATATGAGTACTTTTCGTCAGGGTTTGGTGATTGGAA
GTAACCTGTAATTTACCCAGTGTCCACTGGCTTCTTCAGAGGACTAATGAACTGAAGAAAAGAGCATA
TTTAGCTCGTTTTTAATAAACTTGAGGTACCAAGTGAGTTTCTTCAGGATGAACTGTGGCTGACACC
AATAAACAGTATGAAGAGTTAATGGAAGCCTTTAAACTTTGCATAAAGAATATGAGCAGCTCAAGATAT
CTGGATTTTCTACAGCAGAAATAAGAAAGGATATCAGTGCAATGGAGAAGAAAAGGATCAGCTCATTAA
GAGAGTTGAACATTTGAAGAAAAGGTTGAGACAGCTCAGAATCATCAATGGATGCTTAAAAATAGCAAGG
CAACTTCGAGTTGAAAAAGAGAGAGAAGAATATCTTGACAACAGAAACAGGAACAAAAGAATCAGCTAT
TTCATGCAGTGCAAAGATTGCAAAGAGTACAAAACCAGCTGAAAAGCATGCGCCAAGCTGCAGCAGATGC
AAAGCTGAAAGTTAATGAAGAGGCTAGAGGAGGAGATAAAATTTAATTTATATATGGTAACTGAAAA
TTTCTAAAGAATTAGAAAATAAGAAAAGGAATTACATTTTTTACAAAAAGTAGTTTCAGAGCCAGCTA
TGGCCATTCTGATCTTCTTGAACCTGAACTCTAAAATAAATGAAATAAACACAGAAATTAACCAAGTTGAT
TGAAAAGAAAATGATGAGAAATGAGCCATTGAAGGCAAACCTCTCACTGTATAGGCAACAGGCATCTATC
ATTTCCCGTAAAAAGAAGCCAAAGCTGAGGAACTTCAGGAGGCCAAGGAGAAGTTAGCCAGCCTAGAGA
GAGAAGCATCAGTAAAGAGAAAATCAGACCCGTGAATTTGATGGTACTGAAGTTTTAAAGGAGATGAGAG
ACAGGATCTCACTCTGTCAACCCAGGCTGGAGTGGGTGGTGTGATCATGGCTTACTGCAGCCTGAAACTC
CTAGGCTCAAGTATCCTCCTACCTCAGCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG201265 representing NM_031473
 Red=Cloning site Green=Tags(s)

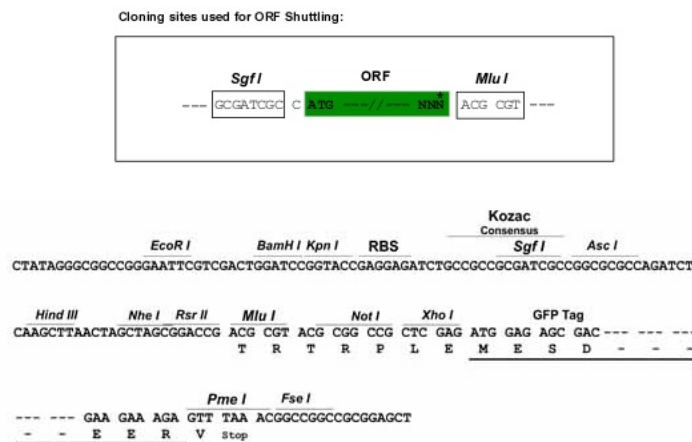
MSDQIKFIMDSL NKEPFRK NYNLITFDSLEPMQLLQVLSVLA EIDPKQLVDIREEMPEQTAKRMLSLLG
 ILKYKPSGNATDMSTFRQGLVIGSKPVIYPVLHWLLQRTNELKKRAYLARFLIKLEVPSEFLQDET VADT
 NKQYEELMEAFKTLHKEYEQLKISGFSTAEIRKDISAMEEEKDQLIKRVEHLKRRVETAQNHQWMLKIAR
 QLRVEKERE EYLAQQKQE QKNQLFHAVQRLQRVQNQLKSMRQAAADAKPESLMKRLEEEIKFNLYMVTEK
 FPKEL ENKKELHFLQKVVSE PAMGHSDDLLELESKINEINTEINQLIEKKMMRNEPIEGKLSLYRQQASI
 ISRKKEAKAEELQEAKEK LASLEREASV KRNTREFDGTEVLK GDERQDLTLSPRLECGGVIMAYCSLKL
 LGSSDPPTSAS

TRTRPLE - GFP Tag - V

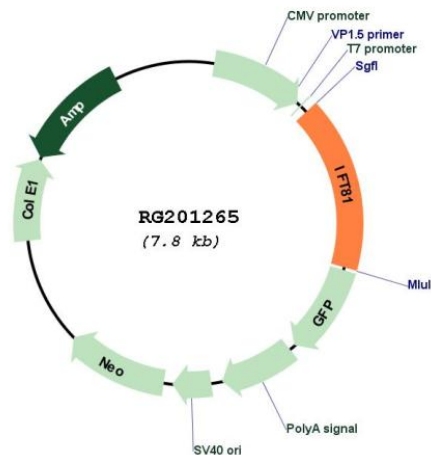
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_031473

ORF Size:	1293 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:	<ol style="list-style-type: none">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_031473.4
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]