

Product datasheet for **MG209962**

Ift81 (NM_009879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ift81 (NM_009879) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ift81
Synonyms:	AW060663; Cdv-1; Cdv-1r; Cdv1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

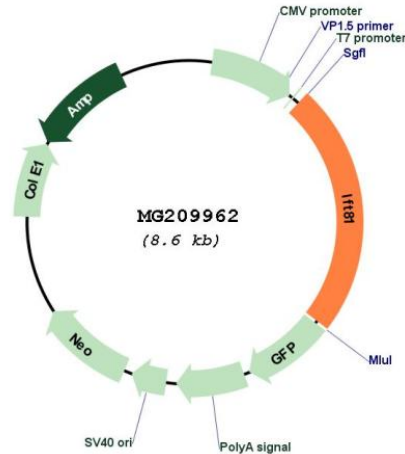
>MG209962 representing NM_009879
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGACCAAATCAAATTCATCGTGGACAGCCTCAATAAGGAGCCTTTTAAGAAGAATTATAACTTAA
 TCACATTTGATTCTTTGGGACCAATGCAACTATTGCAAGTTCTCAATGATGTCCTGGCTGAGATTGACCC
 CAAGCAAGATGTTGATATCAGAGAGGAGATGCCAGAGCAGACAGCCAAACGAATGTTGAATCTTCTTGGT
 ATCCTTAAGTACAAACCTCCGGGAAATGCCACAGACATGAGCACCTTCCGTCAGGGCTTGGTGATTGGAA
 GTAACCTGTGATTTACCCAGTGTCCACTGGCTTCTTCAGCGGAGTAATGAACTAAAGAAAAGGGCATA
 TTTAGCTCGTTTCTTAATAAACTGGAGGTGCCAAGTGAGTTTCTTCAAGATGAGACCGTGGCTGACACC
 AATAAACAGTATGAAGAGCTGATGGAAGCCTTTAAACTCTGCATAAAGAGTGTGAGCAGCTCAAAACAT
 CTGGATTCTACAGCAGAAATCAGAAGGGATATCAGCGCAATGGAGGAGAAAAAGACCAGCTCATGAA
 GAGAGTTGAACGGCTGAAGAAGAGGGTGGAGACCGTTTCAAGCAATCAGCGAATGCTTAAATAGCAAGA
 CAGCTTCGAGTTGAGAAAAGAGAGAAGAATTTCTTGCACAACAGAAAACAGGAACAAAAGAAATCAGCTGT
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 AAAGCCTGAGAGTTAATGAAGAGGCTAGAGGAGGAGATAAAATTTAACTCATACATGGTCACTGAAAAA
 TTTCCAAAAGAATTAGAAAGCAAGAAAAGGAATTACATTTTTTACAGAAGTGGTTTCTGAGCCAGCTA
 TGGGCCACTCTGACCTTCTCGAACTTGAGACTAAAGTCAATGAAGTAAACACGGAGATCAATCAGTTGAT
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 ATTTCTCGTAAGAAAAGCCAAAGCTGAGGAGCTGCAGGAGACCAAGGAGAAGCTGGCCAGCCTTGAGA
 GAGAGGTGTTGGTGAACAACACAGACCCGGGAGTTTCGACGGCACTGAGTTCTGAAGGGAGATGAGTT
 CAAGCGTACGTACGTAACCTTCGAAGCAAAAGCACAGTTTTTCAAAAAGAAAGCATCAGATAATAGCTGAA
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 ATCAACTGCGAATATTGAAGAAAAGAGGGTATATCTGGATACAGTTACACCCAAGAGGAGCTTGAGAG
 AGTGTGCGCCCTGAAGAGTGAGTTGACGAGATGAAAGGCCGGACCCTGGATGACATGTCAGAGATGGTG
 AAAAACTGAATTCCTTGGTATCAGAAAAGAGTCACTTTAGCCCCAGTTATAAAAAGAACTACGGCAGT
 TGCGTCAGAAATGTCAAGAACTAACCCAGGAGTGTGATGAGAAGAAAGCCAGTATGATAGCTGTGCAGC
 AGGCCCTGAAAGCAACCGGTCAAATTAGAGCAGGAAGTGCAGGACTTCGTGAGGAATGTCTTCAAGAA
 GAAAGTAAATACCACTATACAACTGCATGATTAAGAACCTAGAAGTTGAGCTTCGTGAGCGACTGATG
 AGATGAAGGCGTACGTCTCTTCTGATCAGCAAGAGAAGAGGAAAAGCAATTAGGGAACAGTATACAAAAA
 TATTACTGAGCAAGAAAACCTTGGTAAGAACTCCGGGAAAAACAAAAGCTGTACGAGAAAATCATGGT
 CCAACATGAAGCAAGCAAAAATGTGGCGTGATCTTGAACAACCTGATGGAATGCAAAAAACAGTGTCTTC
 TAAAGCAGCAAGCCAGCTTCCATCGGCCAGGTAATTCAGAGGGCGGAGAGGACCGGCTGGTTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Plasmid Map:



ACCN: NM_009879

ORF Size: 2028 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_009879.4](#)

RefSeq Size: 2651 bp

RefSeq ORF: 2031 bp

Locus ID: 12589

UniProt ID: [O35594](#)

Cytogenetics: 5 62.44 cM

Gene Summary: Component of the intraflagellar transport (IFT) complex B: together with IFT74, forms a tubulin-binding module that specifically mediates transport of tubulin within the cilium. Binds tubulin via its CH (calponin-homology)-like region. Required for ciliogenesis. Required for proper regulation of SHH signaling.[UniProtKB/Swiss-Prot Function]