

## Product datasheet for **MG204909**

### Ift74 (BC049156) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ift74 (BC049156) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ift74
Synonyms:	1700029H06Rik; b2b796Clo; Ccdc2; Cmg1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204909 representing BC049156 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGTAATCACAAATCTTCAGCCCCTCGCCCTATTTCTCGGGTGGAAATAGGACTAACAGGAAGGC  
CTCCTTCTGGAATAAGACCTCCATCTGGCAATGTTGAGTGGCAACTGCAATGCCACCAACAACAGCAAG  
ACCAGTTCTCGTGGTGGTCCCTTAGGGACTGGTGGAGTTTTGTCATCTCAAATCAAAGTTGCTGATCGT  
CCTGTGACCCAACAAGGTTTGAAGTGAAGACTGGCATGAAAGTCCCCAGAGGCAAATTTTAGACA  
AATCTTACTATCTTGGACTTCTTAGGAGCAAAATAAGTGAACCTACAACCTGAAATTAATAAGCTTCAGAA  
AGAAATAGAAATGTACAACCAAGAAAATTCAGTGTATTTGTCATATGAAAAGAGGGCAGAGACATTAGCT  
GTTGAAATTAAGACTTTCAAGGACAACACTAGCAGACTACAACATGTTGGTAGATAAACTTAATACCAATA  
CTGAAATGGAAGAAGTAATGAGTGATTACAACATGCTTAAAGCTCAAAATGACAGAGAAACACAAAGTAT  
GGATGTCATATTTACTGAAAGACAAGCGAAGGAAAAACAATCAGAAGTGTAGAAGAAGAAGTTGAACAA  
GAAAAGCAAGCAGCAGATGGCATTATCAAAAATATGCTCCTGAAAAACAAGTCAAGTACATAGAAATGA  
AAACCACAAATGAGAACTGTTGCAGGAATTAGATACACTTCAGCAACAGCTAGATTCTCTGAACATGAA  
AAAGGAGAGCCTAGAACTGAAATAGCACACTCCCAAGTAAAACAAGAGGCTGTATTGCTGTATGAAAA  
CTTTATGAGTTAGAGTCCCATCGAGATCAAATGATTGCAGAAGACAAAAGCATGGGATCGCCAATGGAGG  
AAAGGGAGAGATTGTTTAAGCAGGTTAAAGAAGATAATCAGGAAATAGCCAGCATGGAGAGACAGTTAAC  
AGATATAAAAGAAAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG204909 representing BC049156  
Red=Cloning site Green=Tags(s)

MASNHKSSAPRPISRGGIGLTGRPPSGIRPPSGNVRVATAMPPTTARPGSRGGPLGTGGVLSSQIKVADR  
 PVTQQGLSGMKTGMKGPQRQILDKSYLGLLRKISELTTEINKLQKEIEMYNQENSVYLSYEKRAETLA  
 VEIKDFQGLADYNMLVDKLNNTMEMEVMSDYNMLKAQNDRETQSMDFIFTERQAKEKQIRSVEEEVEQ  
 EKQAADGIKNNMSPEKQVKYIEMKTTNEKLLQELDTLQQQLDSLNMKESLETEIAHSQVKQEAVLLYEK  
 LYELESHRDQMI AEDKSMGSPMEERERL FKQVKEDNQEI ASMERQLTDIKEK

TRTRPLE - GFP Tag - V

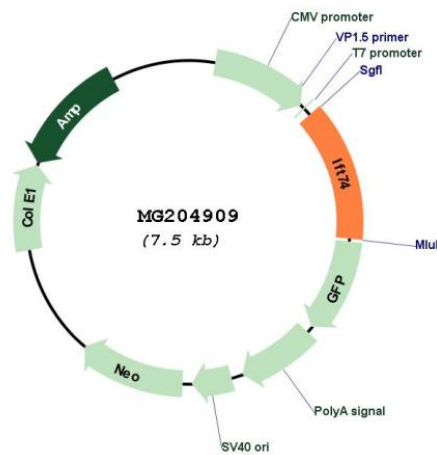
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC049156

**ORF Size:** 998 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC049156</a>
<b>RefSeq Size:</b>	1659 bp
<b>RefSeq ORF:</b>	998 bp
<b>Locus ID:</b>	67694
<b>Cytogenetics:</b>	4 C5
<b>Gene Summary:</b>	Component of the intraflagellar transport (IFT) complex B: together with IFT81, forms a tubulin-binding module that specifically mediates transport of tubulin within the cilium. Binds beta-tubulin via its basic region. Required for ciliogenesis (By similarity).[UniProtKB/Swiss-Prot Function]