

## Product datasheet for MR229651

### Ift74 (NM\_001290568) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ift74 (NM\_001290568) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ift74  
**Synonyms:** 1700029H06Rik; b2b796Clo; Ccdc2; Cmg1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229651 representing NM\_001290568  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCAGTAATCACAAATCTTCAGCCCTCGCCCTATTTCTCGGGTGGGAATAGGACTAACAGGAAGGC  
CTCCTTCTGGAATAAGACCTCCATCTGGCAATGTTGAGTGGCAACTGCAATGCCACCAACAACAGCAAG  
ACCAGTTCTCGTGGTGGTCCCTTAGGGACTGGTGGGATTTTGTATCTCAAATCAAAGTTGCTGATCGT  
CCTGTGACCCAACAAGGTTTGTGGAATGAAGACTGGCATGAAAGGTCCCAGAGGCAAATTTAGACA  
AATCTTACTATCTTGACTTCTTAGGAGCAAAATAAGTGAACTTACAACCTGAAATTAATAAGCTTCAGAA  
AGAAATAGAAATGTACAACCAAGAAAATTCAGTGTATTTGTCATATGAAAAGAGGGCAGAGACATTAGCT  
GTTGAAATTAAGACTTTCAAGGACAACAGCAGACTACAACATGTTGGTAGATAAACTTAATACCAATA  
CTGAAATGGAAGAAGTAATGAGTGAATACAACATGCTTAAAGCTCAAAATGACAGAGAAACACAAAGTAT  
GGATGTATATTTACTGAAAGACAAGCGAAGGAAAAACAATCAGAAAGTGTAGAAGAAGAAGTTGAACAA  
GAAAAGCAAGCAGCAGATGGCATTATCAAAAATATGTCTCCTGAAAAACAAGTCAAGTACATAGAAATGA  
AAACCACAAATGAGAACTGTTGCAGGAATTAGATACACTTCAGCAACAGCTAGATTCTCTGAACATGAA  
AAAGGAGAGCCTAGAACTGAAATAGCACACTCCAAGTAAAACAAGAGGCTGTATTGCTGTATGAAAAA  
CTTTATGAGTTAGAGTCCATCGAGATCAATGATTGCAGAAGACAAAAGCATGGGATCGCCAATGGAGG  
AAAGGGAGAGATTGCTTAAGCAGGTTAAAGAAGATAATCAGGAAATAGCCAGCATGGAGAGACAGTTAAC  
AGATATAAAAGAAAAAATAAACCAATTTAGTGAAGAAATAGACAACCTTGACATGGATTTAGAGGAGCAC  
CAAGCATGGGCCACATTGTTGCTGGCCTGGCAGCACACACCTTGAATCCCCTCACTGAAGACAGAAGCA  
GGAGTGTACCGGTGAATTTGAGCACCACCCCTTCGGATTATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229651 representing NM\_001290568  
Red=Cloning site Green=Tags(s)

MASNHKSSAPRPISRGGIGLTGRPPSGIRPPSGNVRVATAMPPTTARPGSRGGPLGTGGVLSSQIKVADR  
 PVTQQGLSGMKTGMKGPQRQILDKSYLGLLRKISELTTEINKLQKEIEMYNQENSYYLSYEKRAETLA  
 VEIKDFQGLADYNMLVDKLNNTMEMEVMSDYNMLKAQNDRETQSMDFIFTERQAKEKQIRSVEEEVEQ  
 EKQAADGI IKNMSPEKQVKYIEMKTTNEKLLQELDTLQQQLDSLNMKESLETEIAHSQVKQEAVLLYEK  
 LYELESHRDQMI AEDKSMGSPMEERERLLKQVKEDNQEI ASMERQLTDIKEKINQFSEEIRQLDMDLEE  
 QAWATLLLGLAAHTLNPLTEDRSRVPVNLSTPLRII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

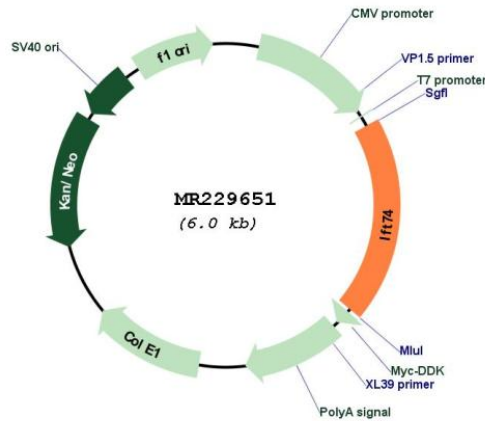
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001290568

<b>ORF Size:</b>	1164 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="#">NM_001290568.1</a> , <a href="#">NP_001277497.1</a>
<b>RefSeq Size:</b>	1713 bp
<b>RefSeq ORF:</b>	1167 bp
<b>Locus ID:</b>	67694
<b>UniProt ID:</b>	<a href="#">Q8BKE9</a>
<b>Cytogenetics:</b>	4 C5
<b>MW:</b>	44.4 kDa
<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]