

Product datasheet for **MG220468**

Ift74 (NM_026319) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ift74 (NM_026319) 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)



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ORF Nucleotide Sequence:

>MG220468 representing NM_026319
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGTAATCACAAATCTTCAGCCCTCGCCCTATTTCTCGGGTGGAAATAGGACTAACAGGAAGGC
 CTCCTTCTGGAATAAGACCTCCATCTGGCAATGTTTCGAGTGGCAACTGCAATGCCACCAACACAGCAAG
 ACCAGTTCTCGTGGTGGTCCCTTAGGGACTGGTGGAGTTTTGTCATCTCAAATCAAAGTTGCTGATCGT
 CCTGTGACCCAACAAGGTTTGGTGAATGAAGACTGGCATGAAAGTCCCCAGAGGCAAATTTAGACA
 AATCTTACTATCTGGACTTCTTAGGAGCAAAATAAGTGAACCTACAACCTGAAATTAATAAGCTTCAGAA
 AGAAATAGAAATGTACAACCAAGAAAATTCAGTGTATTTGTCATATGAAAAGAGGGCAGAGACATTAGCT
 GTTGAAATTAAGACTTTCAAGGACAACAGCAGACTACAACATGTTGGTAGATAAACTTAATACCAATA
 CTGAAATGGAAGAAGTAATGAGTGATTACAACATGCTTAAAGCTCAAAATGACAGAGAAACAAAGTAT
 GGATGTCATATTTACTGAAAGACAAGCGAAGGAAAAACAATCAGAAGTGTAGAAGAAGAAGTTGAACAA
 GAAAAGCAAGCAGCAGATGGCATTATCAAAAATATGTCCTCTGAAAAACAAGTCAAGTACATAGAAATGA
 AAACCACAAATGAGAACTGTTGCGAGGAATTAGATACACTTCAGCAACAGCTAGATTCTCTGAACATGAA
 AAAGGAGAGCCTAGAACTGAAATAGCACACTCCAAGTAAAACAAGAGGCTGTATTGCTGTATGAAAA
 CTTTATGAGTTAGAGTCCCATCGAGATCAAATGATTGCAGAAGACAAAAGCATGGGATCGCCAATGGAGG
 AAAGGGAGAGATTGCTTAAGCAGGTTAAGAAGATAATCAGGAAATAGCCAGCATGGAGAGACAGTTAAC
 AGATATAAAAGAAAAATAAACCAATTTAGTGAAGAAATAGACAACCTTGACATGGATTTAGAGGAGCAC
 CAAGGTGAAATGAATCAAAAATACAAGGAGCTTAAAAAAGGGAGGAAAAATGGATGCTTTTATAGAGA
 CTTTTGAGGAAACGAAGAATCAGGAATAGAGCGGAAGGCACAGATAGAAGCCAGCATCACACTGTT
 AGAGCATTGCAGTCGGAATATAAATCGTATGAAGCAGATATCCTCCATCACCAACCAAGAGCTGAAGATG
 ATGCAGGATGACCTCAGCTTTAAATCAACTGAGATGCAGAAGTCACAGACAACAGCTAGGAATTTGACCT
 CAGACAGTCAGCGTCTGCAGCTGGATCTACAGAAAATGGAACCTCTGAAAAGTAAGATGACAGAAGAGCA
 ACAGTCTCTGAAAAACAAAATTAAGCAATGACTGCTGACCTGGAGACATACAGTGACCTGGCAGCTTTA
 AAATCATCAGCTGAAGAAAAGAAGAAGAAATGCATCAAGAAAAGAACAGTATTGTCAACTCACAGAAATG
 CCTTTAAGAAAAAATGGAGAAGCTGACCTCAGATTATGATACCCTTAAAAGGCAACTTCAAGACAAATGA
 GACACATGCTCAGCTTACAAATTTGGAGAGGAAGTGGCAGCACCTGGAGCAAAATAACTTCGTAATGAAA
 GAGTTCATAGCAACCAAGAGTCAAGAGAGTGATTACCAGCGGTGATTAATAATGTGATGAAGCAGATTG
 CAGAGTATAATAAAACCATCATGGATGCTACATAATGCCAGCAGAAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220468 representing NM_026319
 Red=Cloning site Green=Tags(s)

MASNHKSSAPRPISRGGIGLTGRPPSGIRPPSGNVRVATAMPPTTARPGSRGGPLGTGGVLSQIKVADR
 PVTQQGLSGMKTGMKGPQRQILDKSYLGLLRKISELTTEINKLQKEIEMYNQENSYYLSYEKRAETLA
 VEIKDFQGQLADYNMLVDKLNTEEMEEVMSDYNMLKAQNDRETQSMDFIFTERQAKEKQIRSVEEVEEQ
 EKQAADGIIKNMSPEKQVKYIEMKTTNEKLLQELDTLQQQLDSLNMKESLETEIAHSQVKQEAULLYEK
 LYELESHRDQMI AEDKSMGSPMEERERLLKQVKEDNQEIASMERQLTDIKEKINQFSEEIRQLDMDLEEH
 QGEMNQYKELKKREENMDAFIETFEETKNQELERKAQIEASIIITLLEHCSRINRMKQISSITNQELKM
 MQDDL SFKSTEMQKSQTARNL TSDSQRLQLDLQKMELLESKMTEEQSLKNKIKQMTADLETYSDLAAL
 KSSAEKKKKLHQERTVLSTHRNFKKIMEKLTSDYDTLKRQLQDNETHAQLTNLERKWQHLEQNNFVMK
 EFIATKSQESDYQPVIKNVMKQIAEYNTIMDALHNASRS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_026319

ORF Size: 1800 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_026319.3](#), [NP_080595.2](#)

RefSeq Size: 2128 bp

RefSeq ORF: 1803 bp

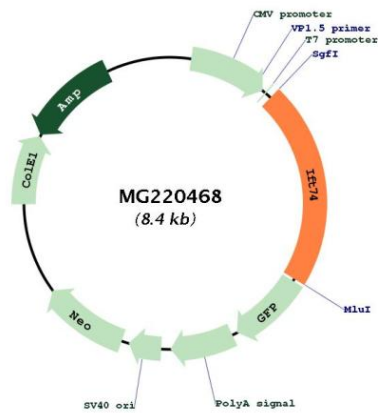
Locus ID: 67694

UniProt ID: [Q8BKE9](#)

Cytogenetics: 4 C5

Gene Summary: 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]

Product images:



Circular map for MG220468