

## Product datasheet for MR204208

### Ift46 (NM\_023831) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ift46 (NM_023831) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ift46
Synonyms:	1500035H01Rik; AA408110; AI663846; c11orf2; R75047
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204208 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGATAACAGCAGTGACGAGTACGAGGAGGACAATAAGGAGAAGAAGAAGCCCTCCCAGCTGACAC  
CACAGCAGGGCTTCAGTGAGAATGATGATGACGACGACGATGACTCCTCTGAGACGGATCCGATGACGA  
CGATGACGATGAGGAGCATGGAGCACCTCTGGAAGGGCGTATGATCCTGCCGACTACGAGCATCTGCCA  
GTCTCGGCCGAGATCAAGGAGCTCTTTGAGTACATCAGCCGTACACACCTCAGTTGATCGATCTGGACC  
ACAAACTGAAACCTTTCATTCTGATTTTATCCCAGCTGTTGGGGATATCGATGCATTTTAAAGGTGCC  
ACGTCCCAGTGGAAAGCCTGACCACCTTGGCCTCTTGGTGTAGATGAACCATCGACAAAGCAGTCGGAC  
CCTACCGTGCTTTCGCTGTGGTTAACAGAGAATCCAAGCAGCATAATATTACGCAACATATGAAAGTAA  
AGAGCCTGGAGGATGCAGAGAAGAATCCCAAAGCCATTGACACCTGGATTGAGAGCATCTCTGAGTTACA  
CCGTTCCAAGCCCCCTGCAACTGTGCACTACACCAGGCCATGCCCGACATTGACACTCTGATGCAGGAG  
TGGTCCCCGGAATTTGAAGAGCTCTGGGAAAGGTGAGTCTGCCACTGTGAGATCGATTGCAGCCTGG  
CTGAGTACATTGACATGATCTGTGCGATCCTGGACATTCCTTTCTATAAGAGCCGGATTCAGTCTCTCCA  
CCTGCTCTTTCCCTCTACTCAGAGTTCAAGAACTCCCAGCATTTTAAAGCTCTTGCTGAAGGCAAAAAA  
GTATTCACCCCTCACCCAACCTGCCTCCCAGGCTGGGGATGCGGAGACTGACTTTTCATC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204208 protein sequence  
Red=Cloning site Green=Tags(s)

MADNSSDEYEEDNKEKKKPSQLTPQQGFSENDDDDDDSSSETSDDDDDDEEHGAPLEGAYDPADYEHLP  
VSAEIKELFEYISRYTPQLIDLHKLKPFIPDFIPAVGDIDAFKLVPRPDGKPDHLGLLVLDEPSTKQSD  
PTVLSLWLTENSKQHNIHQHMKVKSLEDAEKNPKAIDTWIESISELHRSKPPATVHYTRPMPDIDTLMQE  
WSPEFEELLGKVS LPTVEIDCSLAEYIDMICAILDIPFYKSRIQSLHLLFSLYSEFKNSQHFKALAEKKK  
VFTPPPNASQAGDAETLTFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_023831

**ORF Size:** 906 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\\_023831.1](#), [NM\\_023831.2](#), [NM\\_023831.3](#), [NP\\_076320.2](#)

**RefSeq Size:** 3337 bp

**RefSeq ORF:** 906 bp

**Locus ID:** 76568

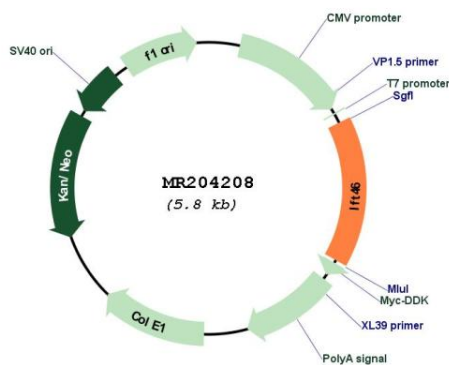
**UniProt ID:** [Q9DB07](#)

**Cytogenetics:** 9 A5.2

**MW:** 34.1 kDa

**Gene Summary:** Forms part of a complex involved in intraflagellar transport (IFT), the bi-directional movement of particles required for the assembly, maintenance and functioning of primary cilia. May play a role in chondrocyte maturation and skeletogenesis.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204208