

Product datasheet for MC203941

Ift27 (NM_025931) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ift27 (NM_025931) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ift27
Synonyms: 2600013G09Rik; Rabl4
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC017514
 GAAGGCGGGTTGATGATGGTTGCCAGGAGCCTGTTTGGCGGACTCTGGGACCAGAGGACTAGTGGTTG
 TGTCTCAACTCTTCTTTGGGCCGGTCTAAGGCTGGACTTGAACGGGTTCTGCTCCGCCCCACCGAAC
 CTTTGCAGGCTGCCTGGGCCTGAAGCCCTCCGTCCACCCAACCTAGCACCCGGGCCATCATCCATCCC
 TCCATCACGGCCTCAGGCCCTGGTGTGTCAGCTGTCCCCGAATCCTAACCCCTTTAGCGTCCCCACCCC
 CACGTCTCCGCTAGTACCTGGTACTATGGTGAAGCTAGCTGCCAAATGCATCCTGGCAGGGGACCCAGC
 CGTAGGCAAGACGGCCCTGGTGCAGATGTTCCGCAGCGACGGGACCCATTTCCAGAAGAACTACACCCTG
 ACAACTGGAGTGGATTTGGTGGTGAAGACAGTCCAGTCTTGACACAAATGACAGTGTGGAAGTCTTCA
 TTTTTGACTCAGCCGGCAAGGAGCTGTTCTCTGAAATGCTGGATAAGTTGTGGGAGAATCCCAACGTCCT
 GTGCCTTGCTATGATGTGACCAATGAACAGTCCCTTCATCAGCTGCACCAAGTGGTTGGAGAAGGTCGG
 TCTCAGACTTCAGGCATCTCCCTCCCAGGTGTTTTAGTGGGAAGTAAAGACAGACCTGGCTGGCCGACAAA
 CAGTGGATTACAGCTCAGGCCAGGTATGGGCACTGAGTCAAGGCCTGGAATCTTTGAGACATCTGTGAA
 GGAGATGGATAATTACGAGGCCCGTTCCACTGTCTGGCCAAGCAGTTCTACCAGCTGTACCGGGAAAAA
 GTGGACATATTCCATACCTGGTGTGAGGGTACAGTGGACTGTCTGAAGGGCTGCCACTCTGCCGCTG
 CTGCTGTGAGCCCAGCAGACCATTTGCTTTTCAGGAGACAGAAGACGGGATCACCTGGGATTTCTCAGTA
 TCCACCATGGTTTTCAATAAAATGAGAAGACAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_025931

Insert Size: 561 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	<ol style="list-style-type: none">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:	<u>BC017514</u> , <u>AAH17514</u>
RefSeq Size:	1050 bp
RefSeq ORF:	561 bp
Locus ID:	67042
UniProt ID:	<u>Q9D0P8</u>
Cytogenetics:	15 E1
Gene Summary:	Small GTPase-like component of the intraflagellar transport (IFT) complex B that promotes the exit of the BBSome complex from cilia via its interaction with ARL6 (PubMed:25446516). Not involved in entry of the BBSome complex into cilium. Prevents aggregation of GTP-free ARL6. Required for hedgehog signaling (PubMed:25446516). Forms a subcomplex within the IFT complex B with IFT25 (By similarity). Its role in intraflagellar transport is mainly seen in tissues rich in ciliated cells such as kidney and testis. Essential for male fertility, spermiogenesis and sperm flagella formation (PubMed:28964737). Plays a role in the early development of the kidney (PubMed:29626631). May be involved in the regulation of ureteric bud initiation (PubMed:29626631).[UniProtKB/Swiss-Prot Function]