

Product datasheet for **MC203496**

Arl3 (NM_019718) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arl3 (NM_019718) Mouse Untagged Clone
Tag: Tag Free
Symbol: Arl3
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC042941

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GGAGGAGGAGCGGAGGAGGAGGAGGAGGAGGAGGACTCGGCTTGAGGATGGGCTTGCTCTCTATTTTGCGCAA  
TTGAAAAGTGCACCAGACCAGGAGGTGCGAATCCTACTCCTGGGCTTGGACAACGCGGGCAAGACTACCT  
TGCTGAAGCAACTCGCATCTGAAGACATCAGCCACATCACACCTACACAGGGATTTAACATCAAAAAGCGT  
GCAGTCACAAGGTTTTAAGCTGAATGTATGGGACATTGGCGGGCAGAGGAAAATCAGACCATACTGGAGA  
AGTTATTTTAAAATACTGATATTCTCATCTATGTAATTGACAGTGCCGACAGAAAGAGATTTGAAGAGA  
CGGGTCAGGAACTAACGGAATTACTGGAGGAAGAAAAGCTGAGTTGTGTGCCCGTCTCATCTTTGCTAA  
CAAGCAGGACCTGCTCACGGCAGCCCCAGCCTCCGAGATCGCAGAAGGGCTAAACCTCCACACCATCCGG  
GACCGCTCTGGCAGATCCAGTCTGTTCAGCGCTCACAGGCGAGGGCGTCCAGGATGGCATGAACTGGG  
TCTGCAAGAATGTCAACGCAAAGAAGAAAATAAACGGAGGCGAGGGCGATGGTGGCGCTGGAGCCGGGAGC  
TAGAGTCAGCCCTAGAAACACTGGTTGCTGCTTTCTGACCAAAATGCTTTTCTGTCTGTGCACAGCCACA  
GCTGTGTGGCGGGCGGGAGGGACAGCAGCCTGAGAAAAGATCCCCATCCCAGCAGTAGATTTTAACTGAT  
CTCAGAGGCTCGGTATCGTTTTTCAAATAAAGGAATTATATTATTTCTCTGAAAAAAAAAAAAAAAAA
```

Restriction Sites: RsrII-NotI

ACCN: NM_019718

Insert Size: 549 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).

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).



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- 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: [BC042941](#), [AAH42941](#)

RefSeq Size: 838 bp

RefSeq ORF: 549 bp

Locus ID: 56350

UniProt ID: [Q9WUL7](#)

Cytogenetics: 19 C3

Gene Summary: Small GTP-binding protein which cycles between an inactive GDP-bound and an active GTP-bound form, and the rate of cycling is regulated by guanine nucleotide exchange factors (GEF) and GTPase-activating proteins (GAP) (PubMed:18376416). Required for normal cytokinesis and cilia signaling. Required for targeting proteins to the cilium, including myristoylated NPHP3 and prenylated INPP5E. Targets NPHP3 to the ciliary membrane by releasing myristoylated NPHP3 from UNC119B cargo adapter into the cilium (By similarity). Requires assistance from GTPase-activating proteins (GAPs) like RP2 and PDE6D, in order to cycle between inactive GDP-bound and active GTP-bound forms (PubMed:15979089). Required for PKD1:PKD2 complex targeting from the trans-Golgi network to the cilium (PubMed:25405894). [UniProtKB/Swiss-Prot Function]