

ARL3 cDNA

Catalog Number: ATGD0196

PRODUCT INFORMATION

Catalog number

ATGD0196

Product type

cDNA

Species

Human

NCBI Accession No.

NP_004302.1

Alternative Names

ARFL3

mRNA Refseq

NM_004311.3

OMIM

604695

Chromosome location

10q23.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

549bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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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). Required for normal cytokinesis and cilia signaling. Requires assistance from GTPase-activating proteins (GAPs) like RP2 and PDE6D, in order to cycle between inactive GDP-bound and active GTP-bound forms. Required for targeting proteins such as NPHP3 to the ciliary membrane by releasing myristoylated NPHP3 from UNC119B cargo adapter into the cilium. Does not act as an allosteric activator of the cholera toxin catalytic subunit.

DATA

Sequence nucleotides

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ATGGGCTTGCTCTCAATTTTGCGCAAGTTGAAAAGTGCACCAGACCAGGAGGTGAGAATACTTCTCCTGGGCTTGGATAATG
CTGGCAAGACCACTCTTCTGAAGCAGCTTGCATCTGAAGACATCAGCCACATCACACCTACACAGGGTTTCAACATCAAAG
TGTACAATCACAAGGTTTTAACTGAATGTATGGGACATTGGTGGACAGAGGAAAATCAGACCATACTGGAAGAATTATTTT
GAAAATACCGATATTCTTATATATGTAATCGACAGTGCAGACAGAAAAAGATTTGAAGAGACGGGTCAGGAACTAGCGGAAT
TACTGGAGGAAGAAAACTAAGTTGTGTGCCAGTGCTCATCTTTGCTAATAAGCAGGATTTGCTCACAGCAGCCCCTGCCTC
TGAAATTGCAGAAGGACTGAACCTGCATACCATCCGCGACCGAGTCTGGCAGATCCAGTCTTGCTCAGCTCTCACAGGAGA
GGGCGTTCAGGATGGCATGAACTGGGTCTGCAAAAATGTCAATGCAAAGAAGAAATAA
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Transaction Sequence

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MGLLSILRKL KSAPDQEVRI LLLGLDNAGK TLLKQLASE DISHITPTQG FNIKSVQSQGFKLNVWDIGG QRKIRPYWKN
YFENTDILYI VIDSADRKR F EETGQELAE LEEELSCVPLIFANKQDL LTAAPASEIA EGLNLHTIRD RVWQIQSCSA
LTGEGVQDGM NNVCKNVNAKKK
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