

ARL1 cDNA

Catalog Number: ATGD0135

PRODUCT INFORMATION

Catalog number

ATGD0135

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001168.1

Alternative Names

ARFL1

mRNA Refseq

NM_001177.5

OMIM

603425

Chromosome location

12q23.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

546bp

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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ARL encoded by this gene belongs to the ARL (ADP-ribosylation factor-like) family of proteins, which are structurally related to ADP-ribosylation factors (ARFs). ARFs, described as activators of cholera toxin (CT) ADP-ribosyltransferase activity, regulate intracellular vesicular membrane trafficking, and stimulate a phospholipase D (PLD) isoform. Although, ARL proteins were initially thought not to activate CT or PLD, later work showed that they are weak stimulators of PLD and CT in a phospholipid dependent manner. Alternative splicing results in multiple transcript variants encoding different isoforms.

DATA

Sequence nucleotides

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ATGGGTGGCTTTTTCTCAAGTATATTTTCCAGTCTGTTTGGAACTCGGGAATGAGAATTTTAATTTTGGGATTAGATGGAGC
AGGAAAAACCACAATTTTGTACAGATTACAAGTGGGAGAAGTTGTTACTACTATACCTACCATTGGATTTAATGTAGAGACG
GTGACGTACAAAAACCTTAAATTCCAAGTCTGGGATTTAGGAGGACAGACAAGTATCAGGCCATACTGGAGATGTTACTATT
CAAACACAGATGCAGTCATTTATGTAGTAGACAGTTGTGACCGAGACCGAATTGGCATTTCCAAATCAGAGTTAGTTGCCAT
GTTGGAGGAAGAAGAGCTGAGAAAAGCCATTTTAGTGGTGTGTTGCAAATAAACAGGACATGGAACAGGCCATGACTTCCTC
AGAGATGGCAAATTCACCTTGGGTTACCTGCCTTGAAGGACCGAAAATGGCAGATATTCAAAACGTCAGCAACCAAAGGCAC
CGGCCTTGATGAGGCAATGGAATGGTTAGTTGAAACATTA AAAAGCAGACAGTAA
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Transaction Sequence

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MGGFFSSIFS SLFGTREMRI LILGLDGAGK TTILYRLQVG EVVTTIPTIG FNVETVTYKN LKFQVWDLGG QTSIRPYWRC
YYNTDAVIY VVDSICDRDRI GISKSELVAM LEEEELRKAI LVVFANKQDM EQAMTSSEMA NSLGLPALKD RKWQIFKTS
TKGTGLDEAM EWLVELKSR Q
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