

Product datasheet for **RG221949**

ARL13B (NM_182896) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARL13B (NM_182896) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARL13B
Synonyms:	ARL2L1; JBTS8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221949 representing NM_182896 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCAGTCTGATGGCCAGTTGCTGCGGCTGGTTCAAGCGGTGGCGGGAGCCTGTCAGAAAGGTGACTC
TTTTGATGGTGGGACTTGATAATGCTGGTAAAACCGCAACAGCAAAGGGAATCCAAGGAGAATACCTGA
AGATGTAGCTCCTACTGTTGGATTTTCAAAAATTAACCTTAGACAAGGAAAGTTGAAGTACCATCTTT
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TTGTTGTGGATCCAGTGATGAAGAGAGAATGGAAGAGACAAAAGAGGCTATGTCAGAAATGCTAAGACA
TCCTAGGATATCGGAAAAGCCTATATTGGTGTGGCAAAATAACAAGATAAAGAAGGAGCTTTAGGAGAA
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CATGTTACGAATCTCGGGGTATGGAAAGAAAATTGACAAGTCCATTAAGAAAGGCCCTTTATTGGCTGCT
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GAGAAAGACAGTGTGGCTGCCACCTGAAACATAAAATGGAGCATGAGCAATAGAGACACAAGGCCAGG
TTAATCACAATGGCCAAAAAATAATGAATTTGGACTAGTAGAAAATTATAAGGAGGCATTAACACAGCA
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CTAAGAATGAAAAGGAACACCGGGTAGAACCTTAATATAGATGACTGTGCTCCTGAGAGTCCAACGC
CACCCCCACCCCTCCTCCTGTTGGCTGGGGAACCCCTAAAGTCACTAGACTTCCAAAATTGAGCCTCT
TGGTGAACACATCATAATGATTTCTATAGGAAGCCACTGCCTCCCTGGCTGTGCCACAGCGACCTAAC
AGTGATGCTCATGATGTGATCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



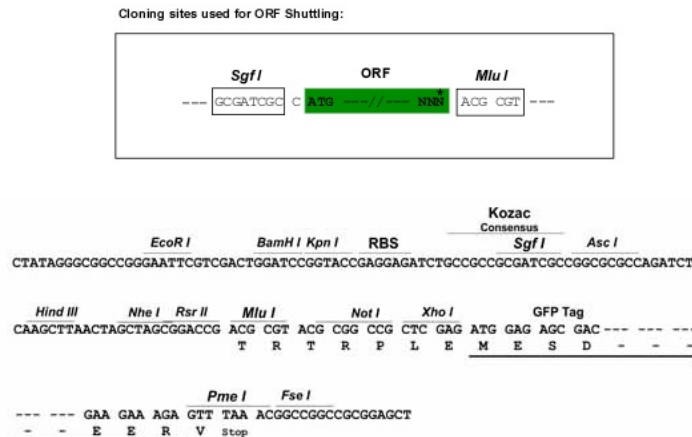
Protein Sequence: >RG221949 representing NM_182896
Red=Cloning site Green=Tags(s)

MFSLMASCWGFKRWREPVRKVTLLMVGLDNAGKTATAKGIQGEYPEDVAPTGVGFSKINLRQGFVETIF
 DLGGGIRIRGIWKNYYAESYGVIFVVDSSDEERMEETKEAMSEMLRHPRISGKPIVLANKQDKEGALGE
 ADVIECLSLEKL VNEHKLCQIEPCSAISGYGKIDKSIKKGLYLLHVIARDFDALNERIQKETTEQRA
 LEEQEKQERAERVRLREERKQNEQEQAELDGTSLAELDPEPTNPFQPIASVIEENEGKLEREKKNQKM
 EKDSDGCHLKHKMEHEQIETQGQVNHNGQKNNEFGLVENYKEAL TQQLKNEDETRPSLESANGKKTKK
 LRMKRNRHVEPLNIDDCAPESPTPPPPPPVPGWTPKVTLPKLEPLGETHHNDFYRKPLPLAVPQRPN
 SDAHVIS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182896

ORF Size: 1284 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_182896.3](#)

RefSeq Size: 3451 bp

RefSeq ORF: 1287 bp

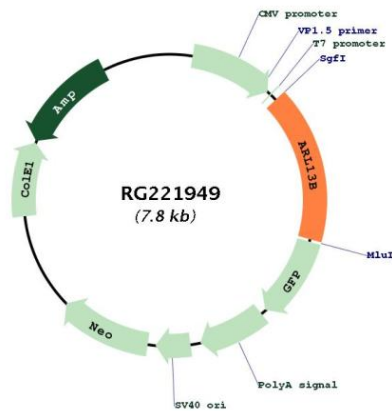
Locus ID: 200894

UniProt ID: [Q3SXY8](#)

Cytogenetics: 3q11.1-q11.2

Gene Summary: This gene encodes a member of the ADP-ribosylation factor-like family. The encoded protein is a small GTPase that contains both N-terminal and C-terminal guanine nucleotide-binding motifs. This protein is localized in the cilia and plays a role in cilia formation and in maintenance of cilia. Mutations in this gene are the cause of Joubert syndrome 8. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RG221949