

## Product datasheet for **RG230067**

### ARL13B (NM\_001174150) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ARL13B (NM\_001174150) 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:** >RG230067 representing NM\_001174150  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTTCAGTCTGATGGCCAGTTGCTGCGGCTGGTTCAAGCGGTGGCGGGAGCCTGTCAGAAAGGTGACTC  
 TTTTGATGGTGGGACTTGATAATGCTGGTAAAACCGCAACAGCAAAGGGAATCCAAGGAGAATACCTGA  
 AGATGTAGCTCCTACTGTTGGATTTTCAAAAATTAACCTTAGACAAGGAAAGTTGAAGTACCATCTTT  
 GACTTGGGAGGTGAATAAGAATTCGGGAATCTGGAAGAATTACTATGCTGAATCCTATGGGGTAATAT  
 TTGTTGTGGATCCAGTGATGAAGAGAGAATGGAAGAGACAAAAGAGGCTATGTCAGAAATGCTAAGACA  
 TCCTAGGATATCGGAAAAGCCTATATTGGTGTGGCAAAATAACAAGATAAAGAAGGAGCTTTAGGAGAA  
 GCTGATGTCATTGAATGTCTATCTCGAAAAATTGGTCAATGAGCACAAGTGCCTGTGTGAGATAGAAC  
 CATGTTACGAATCTCGGGGTATGGAAAGAAAATTGACAAGTCCATTAAGAAAGGCCTTTATTGGCTGCT  
 ACATGTTATTGCAAGAGACTTTGATGCCTAAATGAACGCATCCAAAAGAGACAACAGAGCAGCGTGCT  
 CTTGAGGAACAAGAGAAACAAGAAAGAGCTGAACGAGTGCGAAAATTACGAGAAGAAAGAAAAACAAATG  
 AACAGGAGCAGGCTGAACCTCGATGGAACCAAGTGGTCTGGCTGAGTTGGACCCAGAACCAAGAACCTTT  
 CCAGCCAATAGCATCTGTAATCATTGAGAATGAAGGAAAATTGAAAGAGAGAAAAAACCACAAAAATG  
 GAGAAAGACAGTGTGGCTGCCACCTGAAACATAAAATGGAGCATGAGCAATAGAGACACAAGGCCAGG  
 TTAATCACAATGGCCAAAAAATAATGAATTTGGACTAGTAGAAAATTATAAGGAGGCATTAACACAGCA  
 GTTAAAGAATGAAGATGAGACAGACCGGCCATCATTGGAATCAGCTAATGGTAAAAAGAAAACTAAGAAA  
 CTAAGAATGAAAAGGAACACCGGGTAGAACCCTTAATATAGATGACTGTGCTCCTGAGAGTCCAACGC  
 CACCCCAACCCCTCCTCCTGTTGGCTGGGGAACCCCTAAAGTCACTAGACTTCCAAAATTGAGCCTCT  
 TGGTGAACACATCATAATGATTTCTATAGGAAGCCACTGCCTCCCTGGCTGTGCCACAGCGACCTAAC  
 AGTGATGCTCATGATGTGATCTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG230067 representing NM\_001174150  
Red=Cloning site Green=Tags(s)

MFSLMASC CGWFKRWREPVRKV TLLMVGLDNAGKTATAKGIQGEYPEDVAPT VGF SKINLRQ GKFEV TIF  
 DLGGGIRIRGIWKNYYAESYGVIFVVDSSDEERMEETKEAMSEMLRHPRI SGKPI LV LANKQDKEGALGE  
 ADVIECL SLEKL VNEHKLCQIEPCSAISGYGKIDKSIKGL YWLLHVIARDFDALNERIQKETTEQRA  
 LEEQE KQERAERV RKLREERKQNEQEQAELDGT SGLAELDPEPTNPFQPIASV I IENEGKLEREKKNQKM  
 EKDS DGCHLKHKMEHEQIETQGQVNHNGQKNNEFGLV ENYKEAL TQQLKNEDETRPSLESANGKKTKK  
 LRMKRNRHVEPLNIDDCAPESPTPPPPPPVPGWTPK VTRL PKLEPLGETHHNDFYRKLPLP LAVPQRPN  
 SDAH DVIS

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001174150

**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.

**RefSeq:** [NM\\_001174150.2](#)

**RefSeq Size:** 3991 bp

**RefSeq ORF:** 1287 bp

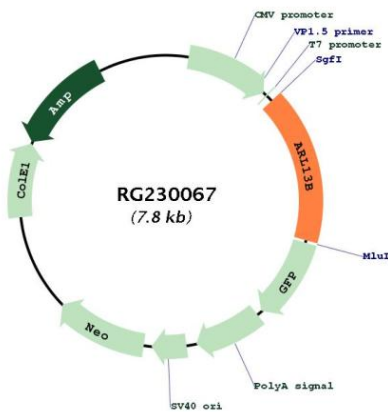
**Locus ID:** 200894

**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 RG230067