

## Product datasheet for **RG200502**

### ARF4L (ARL4D) (NM\_001661) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARF4L (ARL4D) (NM_001661) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARF4L
Synonyms:	ARF4L; ARL6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200502 representing NM_001661 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAACCACTTGACTGAGATGGCGCCACTGCCTCCTCCTTCTTGCCCCACTTCCAAGCCCTGCATG  
TCGTGGTCATTGGGCTGGACTCTGCTGGAAAGACCTCCCTCCTTTACCGCCTCAAGTTCAAGGAGTTTGT  
CCAGAGTGTCCCCACAAAGGCTTCAACACCGAGAAGATCCGGGTGCCCTCGGGGATCGCGTGGCATC  
ACCTTCCAAGTGTGGGACGTGGGGGCGAGGAGAAGCTGCGACCACTGTGGCGCTTTATACCCGCCGA  
CAGACGGTCTAGTGTGGTGGACGCTGCGGAGGCTGAGCGGCTGGAGGAAGCAAGGTGGAGTTGCA  
CCGAATCAGCCGGCCTCGGACAACCAGGGCTGCCAGTGTGGTGTGGCCAACAAGCAGGACCGCC  
GGGCACTGAGCGCTGCTGAGGTGGAGAAGAGGCTGGCAGTCCGAGAGCTAGCAGCCGCACTCTCACTC  
ATGTGCAAGGCTGCAGCGCTGTGGACGGTCTGGCCCTGCAGCAGGGCCTTGGAGCGCTCTATGAGATGAT  
CCTCAAGAGGAAGAAGGCAGCTCGGGTGGCAAGAAGAGACGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG200502 representing NM_001661 Red=Cloning site Green=Tags(s)
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MGNHLEMAPTASSFLPHFQALHVVVIGLDSAGKTSLLYRLKFKEFVQSVPTKGFNTEKIRVPLGGSRGI  
TFQVWDVGGQEKLRPLWRSYTRRDGLVFVVDAAEAERLEEAKVELHRISRASNQGVPLVLANKQDQP  
GALSAAEVEKRLAVRELAATLTHVQCSAVDGLGLQQGLERLYEMILKRKKAARGGKRR

**TRTRPLE** - GFP Tag - V

Restriction Sites:	Sgfl-MluI
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**Cloning Scheme:**


**ACCN:** NM\_001661

**ORF Size:** 603 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\\_001661.4](#)

**RefSeq Size:** 1602 bp

**RefSeq ORF:** 606 bp

**Locus ID:** 379

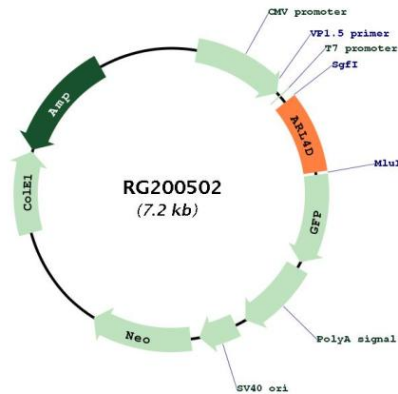
**UniProt ID:** [P49703](#)

**Cytogenetics:** 17q21.31

**Domains:** RAS, RAB, SAR, ARF, arf

**Gene Summary:** ADP-ribosylation factor 4D is a member of the ADP-ribosylation factor family of GTP-binding proteins. ARL4D is closely similar to ARL4A and ARL4C and each has a nuclear localization signal and an unusually high guanine nucleotide exchange rate. This protein may play a role in membrane-associated intracellular trafficking. Mutations in this gene have been associated with Bardet-Biedl syndrome (BBS). [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG200502