

## Product datasheet for **RC209368**

### **ARL8B (NM\_018184) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ARL8B (NM\_018184) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ARL8B  
**Synonyms:** ARL10C; Gie1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC209368 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

**ATGCTGGCGCTCATCTCCCGCTGCTGGACTGGTTCCGTTTCGCTCTTCTGGAAGGAAGAGATGGAGCTGA**  
**CGCTCGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCATATGTCATCGCGTCAGGTCAATTCAGTGA**  
**AGATATGATACCCACAGTGGGCTTCAACATGAGGAAGGTAACAAAGGTAACGTCACAATAAAGATCTGG**  
**GACATAGGAGGACAACCCGATTTCAAGCATGTGGGAGCGGTATTGCAGAGGAGTCAATGCTATTGTTT**  
**ACATGATAGATGCTGCAGATCGTGAAAAGATAGAAGCTTCCCGAAATGAGCTACATAATCTTCTAGATAA**  
**ACCACAGTTACAAGGAATCCAGTGTAGTCTGGAAACAAGAGAGATCTTCTAATGCCTTGGATGAG**  
**AAACAGCTAATTGAAAAAATGAATCTGTCTGCTATTTCAGGATAGAGAAATTTGCTGCTATTCAATTTCTT**  
**GCAAAGAAAAGGATAATATAGATATCACACTTCAGTGGCTTATTCAGCATTCAAATCTAGAAGAAGC**

**ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC209368 protein sequence  
**Red=Cloning site Green=Tags(s)**

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTKGNVTIKIW  
DIGGQPRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLDDKPKLQGIPLVVLGNKRDLPNALDE  
KQLIEKMNL SAIQDREICCYSISCKEKNIDITLQWLIQHKSRRS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6035\\_a08.zip](https://cdn.origene.com/chromatograms/mk6035_a08.zip)



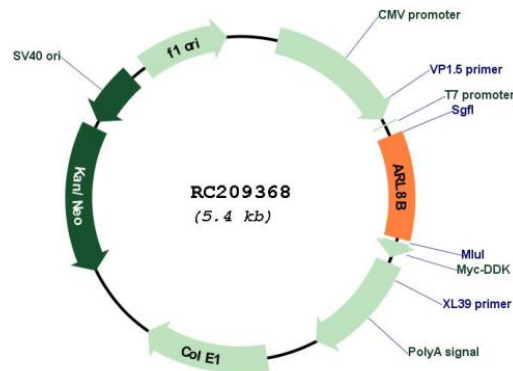
[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_018184

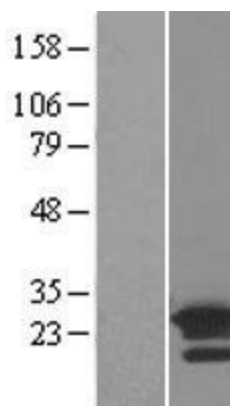
ORF Size: 558 bp

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](#)

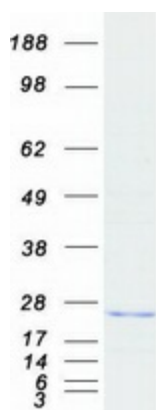
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_018184.3</u>
<b>RefSeq Size:</b>	3008 bp
<b>RefSeq ORF:</b>	561 bp
<b>Locus ID:</b>	55207
<b>UniProt ID:</b>	<u>Q9NVJ2</u>
<b>Cytogenetics:</b>	3p26.1
<b>Domains:</b>	RAB, SAR, ARF, arf
<b>MW:</b>	21.5 kDa
<b>Gene Summary:</b>	Plays a role in lysosome motility (PubMed:16537643, PubMed:25898167). In neurons, mediates the anterograde axonal long-range transport of presynaptic lysosome-related vesicles required for presynaptic biogenesis and synaptic function (By similarity). May play a role in chromosome segregation (PubMed:15331635).[UniProtKB/Swiss-Prot Function]

### Product images:



Western blot validation of overexpression lysate (Cat# [LY402654]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209368 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARL8B protein (Cat# [TP309368]). The protein was produced from HEK293T cells transfected with ARL8B cDNA clone (Cat# RC209368) using MegaTran 2.0 (Cat# [TT210002]).