

## Product datasheet for **MG201737**

### **Arl8b (NM\_026011) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arl8b (NM\_026011) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Arl8b  
**Synonyms:** 2610313E07Rik; 3100002J04Rik; Arl10c; gie1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201737 representing NM\_026011  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGGCGTCACTCTCCCGCTGCTGGACTGGTTCGGTTCGCTCTTCTGGAAGGAGGAGATGGAAGTGA  
 CGCTCGTGGGGCTGCAGTACTCCGGCAAGACCACCTTCGTCATGTCATCGCGTCCGGTCAATTCAGTGA  
 AGATATGATACCCACAGTGGCTTCAACATGAGGAAAGTAACTAAAGGCAACGTCACAATAAAGATCTGG  
 GACATAGGCGGACAGCCCGGTTCCGGAGCATGTGGGAGCGGTACTGCCGAGGAGTCAATGCAATTGTTT  
 ACATGATAGATGCTGCAGATCGAGAAAAGATAGAAGCCTCTCGAAATGAACTGCATAATCTCTAGATAA  
 ACCACAGTTACAAGGATTCCAGTACTAGTACTTGGAAACAAGAGAGATCTTCAAATGCCTTGGATGAG  
 AAACAGCTAATTGAGAAAATGAACCTGTCTGCTATTTCAGGATAGAGAAATTTGCTGCTATTCAATTTCTT  
 GCAAAGAAAAGGATAATATAGATATCACACTTCAGTGGCTTATTCAACTCAAATCCCGGAGAAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG201737 representing NM\_026011  
 Red=Cloning site Green=Tags(s)

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTFVNVIASGQFSEDMIPTVGFNMRKVTGNVTIKIW  
 DIGGQPRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLDPKPLQGIPVVLGNKRDLPNALDE  
 KQLIEKMNLSAIQDREICCYSISCKEKNIDITLQWLIQHSKSRRS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

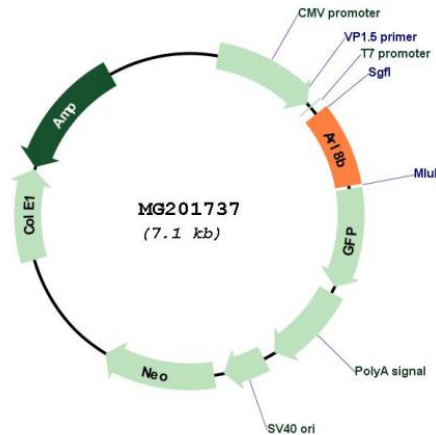


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**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_026011

**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><a href="#">NM_026011.3</a></u> , <u><a href="#">NP_080287.1</a></u>
<b>RefSeq Size:</b>	2928 bp
<b>RefSeq ORF:</b>	561 bp
<b>Locus ID:</b>	67166
<b>UniProt ID:</b>	<u><a href="#">Q9CQW2</a></u>
<b>Cytogenetics:</b>	6 E2
<b>Gene Summary:</b>	Plays a role in lysosome motility (PubMed:30174114). In neurons, mediates the anterograde axonal long-range transport of presynaptic lysosome-related vesicles required for presynaptic biogenesis and synaptic function (PubMed:30174114). May play a role in chromosome segregation (By similarity).[UniProtKB/Swiss-Prot Function]