

## Product datasheet for **MG201740**

### **Arl8a (NM\_026823) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arl8a (NM\_026823) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Arl8a  
**Synonyms:** 1110033P22Rik; Arl10b; gie2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201740 representing NM\_026823  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATCGCTTTGTTCAACAAGCTGCTGGACTGGTTCAAGGCCCTGTTCTGGAAGGAGGAAATGGAGCTCA  
 CGCTGGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCACCGTGATCGCGTCAGGACAGTTCATGA  
 GGACATGATCCCCACTGTGGTTTCAACATGCGAAAAATACCAAAGGGAATGTGACCATCAAGCTCTGG  
 GACATTGGGGGGCAGCCCGTTCCGAAGCATGTGGGAACGCTACTGCAGAGGAGTGAGCGCCATTGTGT  
 ATATGGTGGATGCTGCGGATCAGGAGAAGATCGAGGCCTCCAAGAATGAGCTCCACAACCTGCTAGACAA  
 GCCACAGCTACAAGGCATCCCGGCTTAGTCCTTGGAACAAGCGAGACCTCGCCGGAGCGCTAGATGAG  
 AAGGAGCTAATCGAGAAAATGAACCTGTCTGCTATCCAGGACCGAGAGATCTGCTGCTACTCCATATCCT  
 GCAAAGAGAAGGACAACATAGACATCACCTACAGTGGCTTATTCAACACTCAAAGTCACGGAGAAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG201740 representing NM\_026823  
 Red=Cloning site Green=Tags(s)

MIALFNKLLDWFKALFWKEEMELTLVGLQYSGKTFVNVIASGQFNEDMIPTVGFNMRKITKGNVTIKLW  
 DIGGQPRFRSMWERYCRGVSAIVYMVDAADQEIEASKNELHNLLDKPQLQGIPVLVLGNKRDLGALDE  
 KELIEKMNLSAIQDREICCYSISCKEKNIDITLQWLIQHKSRRS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

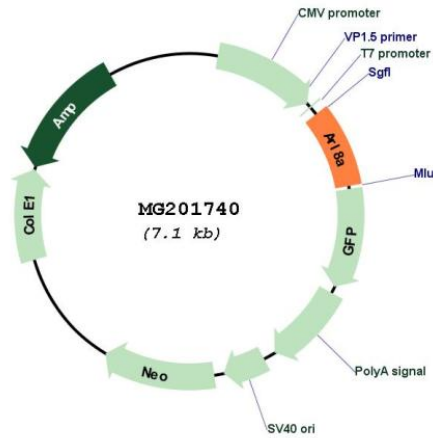


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**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_026823

**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_026823.2</a></u> , <u><a href="#">NP_081099.1</a></u>   |
| <b>RefSeq Size:</b>           | 1702 bp   |
| <b>RefSeq ORF:</b>            | 561 bp  |
| <b>Locus ID:</b>              | 68724   |
| <b>UniProt ID:</b>            | <u><a href="#">Q8VEH3</a></u>   |
| <b>Cytogenetics:</b>          | 1 E4  |
| <b>Gene Summary:</b>          | Plays a role in lysosomes 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]  |