

## Product datasheet for MR201694

### Arl2 (NM\_019722) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arl2 (NM\_019722) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Arl2  
**Synonyms:** 2610009M23Rik; A1115441; AW553335  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR201694 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCTTCTGACCATTCTGAAGAAGATGAAGCAGAAAGAGCGAGAGCTGCGGCTGCTCATGCTTGGCT  
 TGGACAACGCTGGCAAAACAACCATCCTCAAGAAGTTCAATGGAGAAGACGTGGACACCATCTCCCCGAC  
 ACTGGGCTTCAACATCAAGACCCTGGAGCACCGCGGATCAAGCTGAACATCTGGGATGTAGGTGGCCAG  
 AAGTCTCTGCGCTCCTACTGGAGAACTACTTTGAGAGCACGGATGGCCTCATCTGGGTGGTGGACAGCG  
 CCGACCGCCAGCGCATGCAGGACTGTCAGCGAGAGCTGCAGAGCCTACTGGTGGAGGAGCGCCTGGCTGG  
 AGCAACCTCCTCATCTTTGCCAATAAGCAGGACCTGCCTGGAGCACTGCTGTAAATGCTATTCAGGAG  
 GCCCTGGAGCTGGACTCCATCCGCAGCCACCACTGGCGCATCCAGGGCTGCAGTGTGTACAGGGGAAG  
 ACCTGTGCTGGCATCGACTGGCTCCTTGATGACATTTCCAGTCGTGTCTTTACTGCCGAC

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201694 protein sequence  
 Red=Cloning site Green=Tags(s)

MGLLTILKMKQKERELRLLMLGLDNAGKTTILKKFNGEDVDTISPTLGFNIKLEHRGFKLNIWDVGGQ  
 KSLRSYWRNYFESTDGLIWWVDSADRQRMQDCQRELQSLVVEERLAGATLLIFANKQDLPALSCNAIQE  
 ALELDSIRSHHWRIQGCSAVTGEDLLPGIDWLLDDISSRVFTAD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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<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>	<a href="#">NM_019722.1</a> , <a href="#">NM_019722.2</a> , <a href="#">NM_019722.3</a> , <a href="#">NP_062696.2</a>
<b>RefSeq Size:</b>	869 bp
<b>RefSeq ORF:</b>	555 bp
<b>Locus ID:</b>	56327
<b>UniProt ID:</b>	<a href="#">Q9D0J4</a>
<b>Cytogenetics:</b>	19 A
<b>MW:</b>	20.9 kDa
<b>Gene Summary:</b>	<p>Small GTP-binding protein which cycles between an inactive GDP-bound and an active GTP-bound form, and the rate of cycling is regulated by guanine nucleotide exchange factors (GEF) and GTPase-activating proteins (GAP). GTP-binding protein that does not act as an allosteric activator of the cholera toxin catalytic subunit. Regulates formation of new microtubules and centrosome integrity. Prevents the TBCD-induced microtubule destruction. Participates in association with TBCD, in the disassembly of the apical junction complexes. Antagonizes the effect of TBCD on epithelial cell detachment and tight and adherens junctions disassembly. Together with ARL2, plays a role in the nuclear translocation, retention and transcriptional activity of STAT3. Component of a regulated secretory pathway involved in Ca(2+)-dependent release of acetylcholine. Required for normal progress through the cell cycle.</p> <p>[UniProtKB/Swiss-Prot Function]</p>