

## Product datasheet for **MR202096**

### Arl6ip1 (NM\_019419) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arl6ip1 (NM\_019419) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Arl6ip1  
**Synonyms:** Aip-1; AIP-6; AL022945; Arl6ip; ARMER; AU042858; C85138; mKIAA0069  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202096 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGGGGATAACCGCAGCAGCAACCTGCTGGCCGTGGAGACTGCAAGTCTTGAAGAGCAGCTGC  
AAGGCTGGGGAGAGGTGATGCTGATGGCTGACAAAGTCCCTTCGATGGGAAAGAGCCTGGTTCCACCTGC  
CATCATGGGTGTGGTTCCCTGCTGTTCTGATTATCTATTATCTCGATCCATCTGTGCTGTCTGGTGT  
TCCTGCTTTGTTATGTTTTGTGCTGGCTGACTACCTGTTCCATTCTAGCACCAAGAATTTTTGGCT  
CTAATAAATGGACCACTGAACAACAGCAAAGATTCATGAAATCTGCAGTAATCTAGTAAAACTCGACG  
CAGAGCTGTGGCTGGTGGAAACGCCTCTTTCCCTAAAGGAAGAAAAGCCTAAAATGTACTTCATGACC  
ATGATCATTTCTCTTGCTGCGGTGGCTGGGTGGGACAGCAAGTTCACAACCTGCTTCTACCTACCTGA  
TTGTGACATTTGTGCTGTTGCTTCTGGACTAAACCAACATGGGATCATTCTGAAGTACATTGGAATGGC  
CAAAAGGGAGATAAACAACTTCTCAAGCAAAAAGAAAAGAAAATGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR202096 protein sequence  
 Red=Cloning site Green=Tags(s)

MAEGDNRSSNLLAVETASLEEQLQGWEVMLMADKVLRWERAWFPPAIMGVVSLFLIIYYLDPSVLSGV  
SCFVMFLCLADYLPILAPRIFGSNKWTEQQRFHEICSNLVKTRRRVAVGWKRLFSLKEEKPKMYFMT  
MIISLAAVAVWVQQVHNLLLTYLIVTFVLLPLGLNQHGIILKYIGMAKREINKLLKQKEKKNE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_019419

ORF Size: 612 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\\_019419.2](#)

RefSeq Size: 2154 bp

RefSeq ORF: 612 bp

Locus ID: 54208

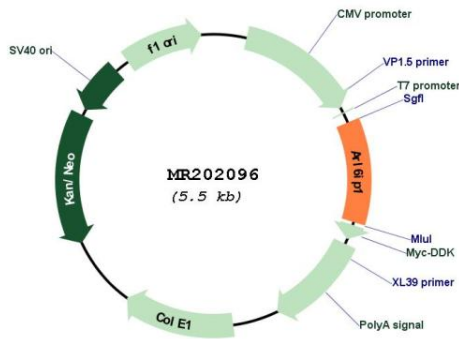
UniProt ID: [Q9JKW0](#)

**Cytogenetics:** 7 F1

**MW:** 23.4 kDa

**Gene Summary:** Positively regulates SLC1A1/EAAC1-mediated glutamate transport by increasing its affinity for glutamate in a PKC activity-dependent manner. Promotes the catalytic efficiency of SLC1A1/EAAC1 probably by reducing its interaction with ARL6IP5, a negative regulator of SLC1A1/EAAC1-mediated glutamate transport (PubMed:18684713). Plays a role in the formation and stabilization of endoplasmic reticulum tubules. Negatively regulates apoptosis, possibly by modulating the activity of caspase-9 (CASP9). Inhibits cleavage of CASP9-dependent substrates and downstream markers of apoptosis but not CASP9 itself. May be involved in protein transport, membrane trafficking, or cell signaling during hematopoietic maturation (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202096