

## Product datasheet for MC203697

### Arfrp1 (NM\_029702) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arfrp1 (NM\_029702) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Arfrp1  
**Synonyms:** 1500006I01Rik; AI480700  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC010713  
 CCCATGCGTCCGGCTCCGTCCTTCGCTCCTTGTTCCGTCAGGCACTGTGAGGGGTCAGCGTGAGGTCGGT  
 GGGGTTAGGAACGCGCGCGCGCGCGCGCGGCTCCTCCTCAAGATCTGAGCAGGGTGCCA  
 GAACAGGATGTACACGCTGCTTTTCGGGATTGTACAAGTACATGTTCCAGAAGGATGAATACTGCATCCTG  
 ATCCTGGGCTCGACAATGCTGGGAAGACGACTTTCCTGGAACAGTCAAAAAACACGCTTTAAACAAGAACT  
 ACAAGGGGATGAGTCTATCCAAAATCACCACTACCGTGGGTCTAAACATTGGCACTGTGGACGTGGGAAA  
 GGCTCGTCTCATGTTTTGGGACTTAGGTGGCAGGAAGAGCTGCAGTCTTTGTGGACAAGTACTATGCA  
 GAGTGCCATGGTGTATGTAAATTGATCCACTGATGAAGAAAGGCTGTCAGAATCAAAGAGGCAT  
 TTGAGAAGGTGGTTTCGAGTGAAGCACTGGACGGTGTCCCATCCTGGTGTGGCCAACAAGCAGGATGT  
 GGAGACTTGCCTCTCCATTCTGACATCAAGACTGCATTCACTGACTGTACCTGTAAGATTGGCCGGCGA  
 GATTGTCTGACCCAGGCTGCTCTGCCCTCACAGGCAAAGGAGTTCGAGAGGGCATCGAATGGATGGTGA  
 AGTGTGTGTCGCGGAATGTTACCCGGCCACCACGGCAGAGGGACATCACATAAGGACCTCAACCTCAGT  
 CTGGACTGTTCTCCTAGTGTGGAAGAGTATTCTCTGCTGGCTTCTATCCTACTGACTGGGGT  
 TGAGCTGCCTTTGCTGTTCACTTTTTATTTGCTTTATGTTTTCTAAGACAAACTTTTCTCTGTGTC  
 TGGAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_029702

**Insert Size:** 606 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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="#">BC010713</a> , <a href="#">AAH10713</a>  |
| <b>RefSeq Size:</b>           | 934 bp   |
| <b>RefSeq ORF:</b>            | 606 bp   |
| <b>Locus ID:</b>              | 76688  |
| <b>UniProt ID:</b>            | <a href="#">Q8BXL7</a>   |
| <b>Cytogenetics:</b>          | 2 H4   |
| <b>Gene Summary:</b>          | <p>The gene encodes a membrane-associated GTPase that is related to the ADP-ribosylation factor (ARF) and ARF-like (ARL) genes. It plays an essential role in Golgi function controlling recruitment of GRIP domain proteins and ARL1 to the trans-Golgi and trans-Golgi to plasma membrane trafficking of cell surface proteins such as E-cadherin. Deletion of this gene in mice leads to embryonic lethality during early gastrulation, which is at least partly caused by the disruption of E-cadherin trafficking to the cell surface and therefore lack of sufficient cell-cell adhesion in the embryo. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same isoform (1).</p> |