

Product datasheet for **MG221621**

Arfrp1 (NM_001165991) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arfrp1 (NM_001165991) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Arfrp1
Synonyms: 1500006I01Rik; AI480700
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221621 representing NM_001165991
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTACACGCTGCTTTCGGGATTGTACAAGTACATGTTCCAGAAGGATGAATACTGCATCCTGATCCTGG
 GCCTGGACAATGCTGGGAAGACGACTTTCCTGGAACAGTCAAAAACACGCTTTAAACAAGAACTACAAGG
 GATGAGTCTATCCAAAATCACCCTACCGTGGTCTAAACATTGGCACTGTGGACGTGGAAAGGCTCGT
 CTCATGTTTTGGGACTTAGGTGGCAGGAAGAGCTGCAGTCTTTGTGGACAAGTACTATGCAGAGTGCC
 ATGGTGCATCTATGTAATTGATTCCACTGATGAAGAAAGGCTGTCAGAATCAAAAAGAGGCATTTGAGAA
 GGTGGTTTCGAGTGAAGCACTGGACGGTGTCCCATCCTGGTGTGGCCAACAAGCAGGATGTGGAGACT
 TGCCCTCTCCATTCTGACATCAAGACTGCATTCAGTGACTGTACCTGTAAGATTGGCCGGCGAGATTGTC
 TGACCCAGGCCTGCTCTGCCCTCACAGGCAAAGGATTCGAGAGGGCATCGAATGGATGGTGAAGTGTGT
 CGTGCGGAATGTTACCGGCCACCACGGCAGAGGGACATCACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221621 representing NM_001165991
 Red=Cloning site Green=Tags(s)

MYTLLSGLYKYMFKDEYICILILGLDNAGKTTFLEQSKTRFNKNYKMSLSKITTTVGLNIGTVDVGKAR
 LMFWDLGGQEELQSLWDKYAECHEGVIYVIDSTDEERLSESKEAFEKVVSEALDGVPIILVLANKQDVET
 CLSIPDIKTAFSCTCKIGRRDCLTQACSALTGKGVREGIEWMVKCVVRNVHRPPRQDIT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_001165991

ORF Size: 603 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_001165991.1](#), [NP_001159463.1](#)

RefSeq Size: 2596 bp

RefSeq ORF: 606 bp

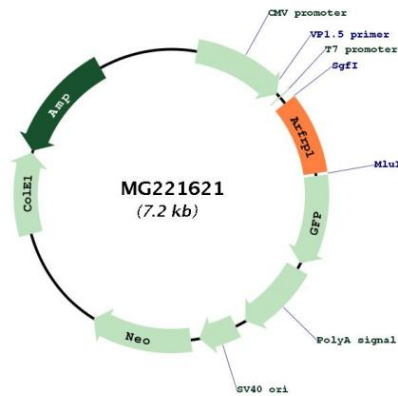
Locus ID: 76688

UniProt ID: [Q8BXL7](#)

Cytogenetics: 2 H4

Gene Summary:

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]

Product images:

Circular map for MG221621