

Product datasheet for MR202061

Arfrp1 (BC010713) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arfrp1 (BC010713) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Arfrp1
Synonyms: MGC6837
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR202061 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACACGCTGCTTTCGGGATTGTACAAGTACATGTTCCAGAAGGATGAATACTGCATCCTGATCCTGG
GCCTGGACAATGCTGGGAAGACGACTTTCCTGGAACAGTCAAAAACACGCTTTAAACAAGAACTACAAGG
GATGAGTCTATCCAAAATCACCCTACCGTGGGTCTAAACATTGGCACTGTGGACGTGGGAAAGGCTCGT
TCATGTTTTGGGACTTAGGTGGCAGGAAGAGCTGCAAGTCTTTGTGGGACAAGTACTATGCAGAGTGCC
ATGGTGCATCTATGTAATTGATTCCACTGATGAAGAAAGGCTGTGAGAATCAAAAAGAGGCAATTTGAGAA
GGTGGTTTCGAGTGAAGCACTGGACGGTGTCCCATCCTGGTGTGGCCAACAAGCAGGATGTGGAGACT
TGCCCTCCATTCTGACATCAAGACTGCATTCAGTGACTGTACCTGTAAGATTGGCCGGCAGATTGTC
TGACCCAGGCTGCTCTGCCCTCACAGGCAAAGGATTCGAGAGGGCATCGAATGGATGGTGAAGTGTGT
CGTGCGGAATGTTACCCGGCCACCACGGCAGAGGGACATCACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202061 protein sequence
Red=Cloning site Green=Tags(s)

MYTLLSGLYKYMFKDEYICILILGLDNAGKTTFLEQSKTRFNKNYKMSLSKITTTVGLNIGTVDVGKAR
LMFWDLGGQEELQSLWDKYAECHEGVIYVIDSTDEERLSESKEAFEKVVSEALDGVPIILVLANKQDVET
CLSIPIKTAFSCTCKIGRRDCLTQACSALTGKGVREGIEWMVKCVVRNVHRPPRQDIT

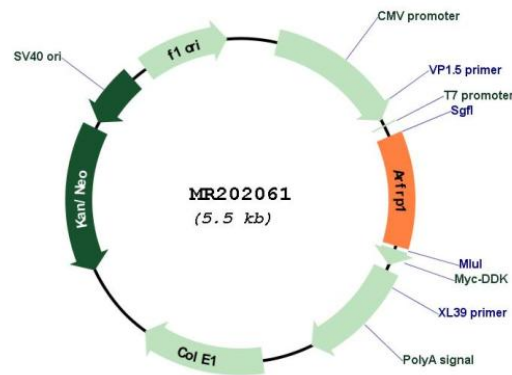
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: BC010713

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: [BC010713](#), [AAH10713](#)

RefSeq Size: 934 bp

RefSeq ORF: 605 bp

Locus ID: 76688

Cytogenetics: 2 H4

MW: 22.7 kDa

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]