

Product datasheet for **RC204774**

ARV1 (NM_022786) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ARV1 (NM_022786) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | ARV1 |
| Synonyms: | DEE38; EIEE38 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC204774 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAACGGCGGGCGGAGCGGCCTGCAGCAGGGGAAGGGGAACGTGGATGGGGTGGCAGCGACTCCTA
CTGCTGCCTCGGCCTCCTGCCAGTACAGGTGCATCGAATGCAACCAGGAGGCCAAAGAGTTGTACCGAGA
CTATAACCACGGTGTGCTGAAGATAACCATCTGTAATCCTGCCAGAACCTGTAGACAAATATATCGAG
TATGATCCTGTTATCATCTTGATTAATGCTATATTGTGCAAAGCTCAGGCCTACAGACATATTCTTTCA
ATACTCAAATAAATATCCATGGAAAACCTGCATATTTTGTGTTTGTGAAGCATACCTGAGGTGGTG
GCAGTTCAAGATTCCAACCAGAATACTGCCCTGATGACTTGATCAGATATGCTAAGGAATGGGATTTT
TATAGAATGTTTGCATTGCTGCTTTAGAACAACTGCCTATTTTATTGGCATTTTACCTTCTGTGGG
TAGAACGGCCCATGACGGCAAAAAAAGCCCACTTCATTTTGTGCTGAAAGCATTATTATTATCTAG
CTACGGAAAACCTTTGCTGATTCCAGCTGTCATTTGGGAACATGACTACACATCTGTGTGCCCAAACCT
ATTAAGTATTTGTTCTTACATCAAATTTTCAGGCAATTAGAGTGACCCTAAACATCAACCGTAAGCTCT
CCTTCTTGCCGTGTTGAGTGGCTTACTGCTGAAAGCATCATGGTCTACTTCTCCAGAGTATGGAATG
GGATGTTGGAAGTGATTATGCCATCTTTAAATCTCAGGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204774 protein sequence
Red=Cloning site Green=Tags(s)

MGNNGRSLQQGKGNVDGVAATPTAASASCQYRCIECNQEAKELYRDYNHGVLKITICKSCQKPVDKYIE
 YDPVIIILINAILCKAQAYRHILFNTQINIHGKLCIFCLLCEAYLRWWQLQDSNQNTAPDDLIRYAKEWDF
 YRMFAIAALEQTAYFIGIFTFLWVERPMTAKKKPNFILLKALLSSYGKLLIPAVIWEHDYTSVCLKL
 IKVFVLTSNFQAIRVTLNINRKL SFLAVLSGLLLESIMVYFFQSMEDVGSDYAIFKSQDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6171_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022786

ORF Size: 813 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_022786.3](#)

RefSeq Size: 1450 bp

RefSeq ORF: 816 bp

Locus ID: 64801

UniProt ID: [Q9H2C2](#)

Cytogenetics: 1q42.2

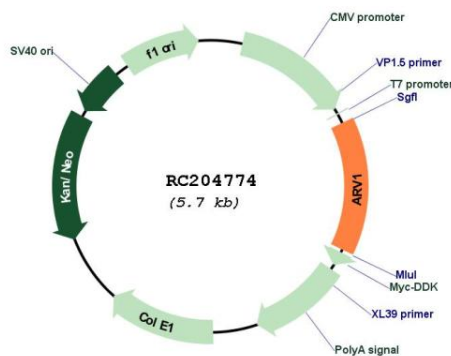
Domains: Arv1

Protein Families: Transmembrane

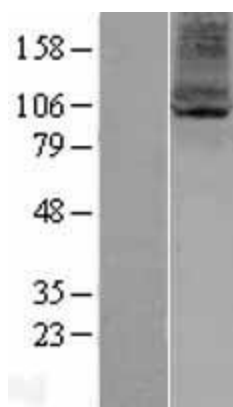
MW: 31.1 kDa

Gene Summary: this gene encodes a transmembrane protein that contains a conserved zinc ribbon motif at the N- terminus. A similar protein in mouse is thought to function in fatty acid homeostasis. Mutations in this gene are associated with early infantile epileptic encephalopathy 38. [provided by RefSeq, Nov 2016]

Product images:



Circular map for RC204774



Western blot validation of overexpression lysate (Cat# [LY402947]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204774 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).