

## **Product datasheet for RC228089**

## OriGene Technologies, Inc.

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## ARP10 (APOBEC3H) (NM\_001166004) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: ARP10 (APOBEC3H) (NM\_001166004) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: ARP10

Synonyms: A3H; ARP-10; ARP10

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC228089 representing NM\_001166004
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

ATGGCTCTGTTAACAGCCGAAACATTCCGCTTACAGTTTAACAACAAGCGCCGCCTCAGAAGGCCTTACT ACCCGAGGAAGGCCCTCTGTGTTACCAGCTGACGCCGCAGAATGGCTCCACGCCCACGAGAGGCTACTT TGAAAACAAGAAAAAGTGCCATGCAGAAAATTTGCTTTATTAACGAGATCAAGTCCATGGGACTGGACGAA ACGCAGTGCTACCCAAGTCACCTGTTACCTCACGTGGAGCCCCTGCTCCTCCTGTGCCTGGGAGCTGGTTG ACTTCATCAAGGCTCACGACCATCTGAACCTGGGCATCTTCGCCTCCCGCCTGTACTACCACTGGTGCAA GCCCCAGCAGAAGGGGCTCCGGGCTTCTGTGTGGATCCCAGGTCCCGGTGGAGGTCATGGGCTTCCCAAAT TCCAGGGGTACGTGCCAAGGGTCATGGATAATTGTG

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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228089 representing NM\_001166004

Red=Cloning site Green=Tags(s)

MALLTAETFRLQFNNKRRLRRPYYPRKALLCYQLTPQNGSTPTRGYFENKKKCHAEICFINEIKSMGLDE TQCYQVTCYLTWSPCSSCAWELVDFIKAHDHLNLGIFASRLYYHWCKPQQKGLRLLCGSQVPVEVMGFPN

SRGTCAGSLHGYIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

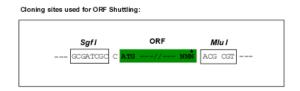
**Chromatograms:** https://cdn.origene.com/chromatograms/ja1251 a03.zip

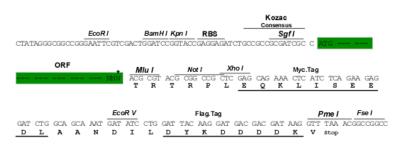




**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001166004

ORF Size: 462 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: <u>NM 001166004.1</u>, <u>NP 001159476.1</u>

RefSeq ORF: 465 bp
Locus ID: 164668
UniProt ID: Q6NTF7



**Cytogenetics:** 22q13.1 **MW:** 17.6 kDa

**Gene Summary:** This gene encodes a member of the apolipoprotein B mRNA-editing enzyme catalytic

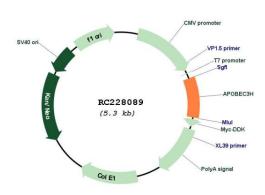
polypeptide 3 family of proteins. The encoded protein is a cytidine deaminase that has antiretroviral activity by generating lethal hypermutations in viral genomes. Polymorphisms and alternative splicing in this gene influence its antiretroviral activity and are associated with

increased resistence to human immunodeficiency virus type 1 infection in certain

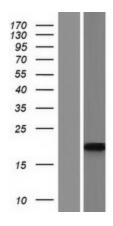
populations. Alternative splicing results in multiple transcript variants.[provided by RefSeq,

Oct 2009]

## **Product images:**



Circular map for RC228089



Western blot validation of overexpression lysate (Cat# [LY431117]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228089 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).