

Product datasheet for **RG209663**

ARP10 (APOBEC3H) (NM_181773) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ARP10 (APOBEC3H) (NM_181773) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: APOBEC3H
Synonyms: A3H; ARP-10; ARP10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209663 representing NM_181773
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTGTTAACAGCCGAAACATTCCGCTTACAGTTTAAACAACAGCGCCGCCTCAGAAGGCCTTACT
ACCCGAGGAAGGCCCTCTTGTTACCAGCTGACGCCGAGAATGGCTCCACGCCACGAGAGGCTACTT
TGAAAACAAGAAAAGTCCATGCAGAAATTTGCTTTATTAACGAGATCAAGTCCATGGGACTGGACGAA
ACGCAGTGCTACCAAGTCACTGTTACCTCACGTGGAGCCCTGCTCCTCTGTGCCTGGGAGCTGGTTG
ACTTCATCAAGGCTCACGACCATCTGAACCTGGGCATCTTCGCCCTCCCGCTGTACTACCACTGGTGCAA
GCCCCAGCAGAAGGGGCTGCGGCTTCTGTGTGGATCCCAGGTCCCGGTGGAGGTCATGGGCTTCCCAGAG
TTTGCTGACTGCTGGGAAAACCTTTGTGGACCACGAGAAACCGCTTTCCTTCAACCCCTATAAGATGTTAG
AGGAGCTAGATAAAAACAGTCGAGCCATAAAGCGACGGCTTGAGAGGATAAAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209663 representing NM_181773
Red=Cloning site Green=Tags(s)

MALLTAETFRLQFNKRRLRRPYPRKALLCYQLTPQNGSTPTRGYFENKKKCHAEICFINEIKSMGLDE
TQCYQVTCYLTWSPCSCAWELVDFIKAHDHLNLGIFASRLYYHWCKPQQKGLRLLCGSQVPVEVMGFPE
FADCWENFVDHEKPLSFNPYKMLEELDKNSRAIKRRLERIKS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_181773.2, NP_861438.1</p>
RefSeq Size:	<p>916 bp</p>
RefSeq ORF:	<p>552 bp</p>
Locus ID:	<p>164668</p>
UniProt ID:	<p>Q6N7F7</p>
Cytogenetics:	<p>22q13.1</p>
Gene Summary:	<p>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 resistance to human immunodeficiency virus type 1 infection in certain populations. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Oct 2009]</p>