

## Product datasheet for **RG228132**

### ARP10 (APOBEC3H) (NM\_001166003) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ARP10 (APOBEC3H) (NM\_001166003) 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:** >RG228132 representing NM\_001166003  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTCTGTTAACAGCCGAAACATTCCGCTTACAGTTTAAACAACAGCGCCGCTCAGAAGGCCTTACT  
 ACCCGAGGAAGGCCCTTGTGTACCAGCTGACGCCGAGAATGGCTCCACGCCACGAGAGGCTACTT  
 TGAACAAGAAAAGTCCATGCAGAAATTTGCTTTATTAACGAGATCAAGTCCATGGGACTGGACGAA  
 ACGCAGTGTACCAAGTACCTGTACCTCACGTGGAGCCCTGCTCCTCTGTGCTGGGAGCTGGTTG  
 ACTTCATCAAGGCTCACGACCATCTGAACCTGGGCATCTTCGCCCTCCGCTGTACTACCACTGGTGCAA  
 GCCCAGCAGAAGGGCTGCGGCTTCTGTGTGGATCCCAGGTCCCGGTGGAGGTCATGGGCTTCCCAAAG  
 TTTGCTGACTGCTGGAAAACCTTTGTGGACCACGAGAAACCGCTTTCCTTCAACCCCTATAAGATGTTAG  
 AGGAGCTAGATAAAAACAGTCGAGCCATAAAGCGACGGCTTGAGAGGATAAAGATTCCAGGGGTACGTGC  
 GCAGGGTCTGTTACATGGATATATTGTGTGATGCTGAGGTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG228132 representing NM\_001166003  
 Red=Cloning site Green=Tags(s)

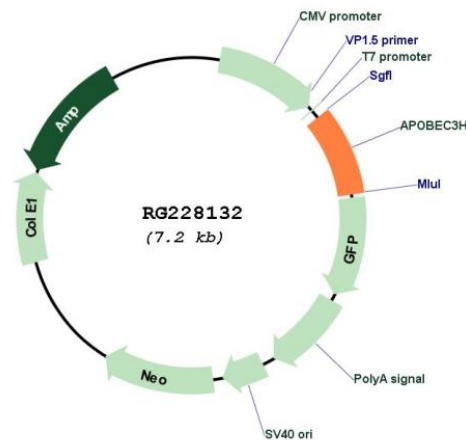
MALLTAETFRLQFNKRRLRRPYPRKALLCYQLTPQNGSTPTRGYFENKKKCHAEICFINEIKSMGLDE  
 TQCYQVTCYLWSPCSCAWELVDFIKAHDLNLGIFASRLYYHWCKPQKGLRLLCGSQVPVEVMGFPK  
 FADCWENFVDHEKPLSFNPYKMLEELDKNSRAIKRRLERIKIPGVRAQGRYMDILCDAEV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001166003

**ORF Size:** 600 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\\_001166003.1](#), [NP\\_001159475.1](#)

**RefSeq Size:** 1164 bp

**RefSeq ORF:** 603 bp

**Locus ID:** 164668

**UniProt ID:** [Q6NTE7](#)

**Cytogenetics:** 22q13.1

**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 resistance to human immunodeficiency virus type 1 infection in certain populations. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Oct 2009]