

## Product datasheet for **RG203056**

### FAM162A (NM\_014367) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FAM162A (NM\_014367) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FAM162A  
**Synonyms:** C3orf28; E2IG5; HGTD-P  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203056 representing NM\_014367  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGAGCCTCAGCGTCTGCGCCTGGCAGCAGGAAGCTGTTTTAGGTTATGTGAAAGAGATGTTTCCT  
 CATCTCTAAGGCTTACCAGAAGCTCTGATTTGAAGAGAATAAATGGATTTGCACAAAACCACAGGAAAG  
 TCCCGGAGTTCATCCCACCTTACAACAGAGTGCCTTTACACAAACCTACGGATTGGCAGAAAAAGATC  
 CTCATATGGTCAGGTCGCTTCAAAAAGGAAGATGAAATCCAGAGACTGTCTCGTTGGAGATGCTTGATG  
 CTGCAAAGAACAAGATGCGAGTGAAGATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTT  
 CATGGTTATTGAGGGCAAGAAGGCTGCCAAAGACACGAGACTTTAAACAAGCTTGAACCTAGAAAAGAAA  
 GCTCGTCTGAAAGAGGAAGCAGCTATGAAGCCAAAACAGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG203056 representing NM\_014367  
 Red=Cloning site Green=Tags(s)

MGSLSGLRLAAGSCFRLCERDVSSSLRLTRSSDLKRINGFCTKQPESPGVPSRTYNRVPLHKPTDWQKKI  
 LIWGRFKKEDEIPETVSLEMLDAAKNMVRKISYLMIALTVVGCIFMVIIEGKKAQRHETLTSLNLEKK  
 ARLKEEAAMKAKTE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_014367

**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:** [NM\\_014367.3](#), [NP\\_055182.3](#)

**RefSeq Size:** 838 bp

**RefSeq ORF:** 465 bp

**Locus ID:** 26355

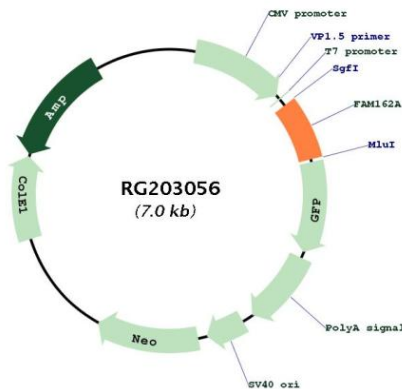
**UniProt ID:** [Q96A26](#)

**Cytogenetics:** 3q21.1

**Protein Families:** Transmembrane

**Gene Summary:** Proposed to be involved in regulation of apoptosis; the exact mechanism may differ between cell types/tissues. May be involved in hypoxia-induced cell death of transformed cells implicating cytochrome C release and caspase activation (such as CASP9) and inducing mitochondrial permeability transition. May be involved in hypoxia-induced cell death of neuronal cells probably by promoting release of AIFM1 from mitochondria to cytoplasm and its translocation to the nucleus; however, the involvement of caspases has been reported conflictingly.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG203056