

Product datasheet for **RC203056**

FAM162A (NM_014367) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FAM162A (NM_014367) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FAM162A
Synonyms: C3orf28; E2IG5; HGTD-P
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203056 ORF sequence
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGAGCCTCAGCGGTCTGCGCCTGGCAGCAGGAAGCTGTTTTAGGTTATGTGAAAGAGATGTTTCCT
CATCTCTAAGGCTTACCAGAAGCTCTGATTTGAAGAGAATAAATGGATTTGCACAAAACCCAGGAAAG
TCCCGGAGTTCCATCCCGCACTTACAACAGAGTGCCTTTACACAAACCTACGGATTGGCAGAAAAAGATC
CTCATATGGTCAGGTCGCTTCAAAAAGGAAGATGAAATCCAGAGACTGTCTCGTTGGAGATGCTTGATG
CTGCAAGAACAAGATGCGAGTGAAGATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTT
CATGGTTATTGAGGGCAAGAAGGCTGCCAAAGACACGAGACTTTAACAAGCTTGAAGCTTAGAAAAGAAA
GCTCGTCTGAAAGAGGAAGCAGCTATGAAGGCCAAAACAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203056 protein sequence
Red=Cloning site **Green**=Tags(s)

MGSLSGRLAAGSCFRLCERDVSSSLRLTRSSDLKRINGFCTKPQESPGVPSRTYNRVPLHKPTDWQKKI
LIWSGRFKKEDEIPETVSLEMLDAAKNMKRVKISYLMIALTVVGCFIMVIEGKKAQRHETLTSLNLEKK
ARLKEEAAMKAKTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

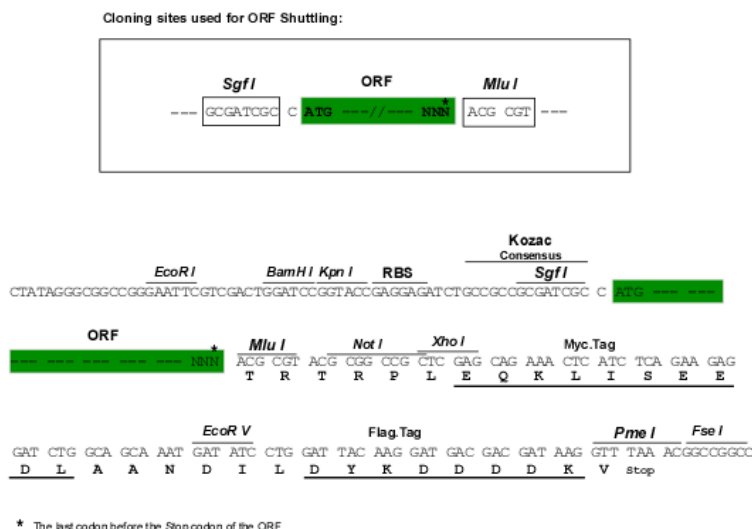
Chromatograms: https://cdn.origene.com/chromatograms/mk6284_a06.zip



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Restriction Sites: SgfI-MluI

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](#)

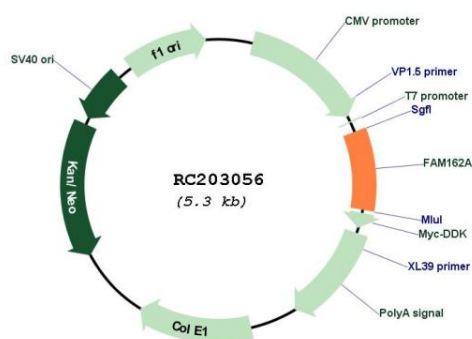
Cytogenetics: 3q21.1

Protein Families: Transmembrane

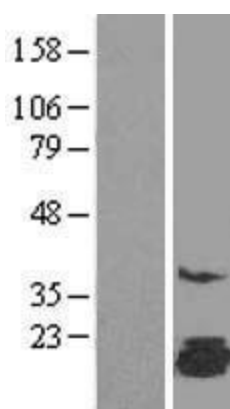
MW: 17.4 kDa

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]

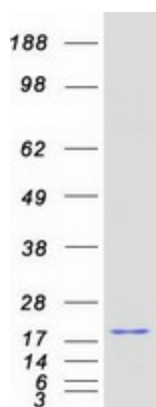
Product images:



Circular map for RC203056



Western blot validation of overexpression lysate (Cat# [LY415331]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203056 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAM162A protein (Cat# [TP303056]). The protein was produced from HEK293T cells transfected with FAM162A cDNA clone (Cat# RC203056) using MegaTran 2.0 (Cat# [TT210002]).