

Product datasheet for MR201149

Fam162a (NM_027342) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam162a (NM_027342) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fam162a
Synonyms: 2310056P07Rik; HGTD-P
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201149 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGGAGCCTCGGCGCCTGCGCCTGGCGCTGGACATTGTCTTAGGTTATATGAAAGAAATGCTTCT
CGTCTCTAAGGTTTACCAGAACTGACTTGAAGAGGATCAATGGATTCTGCACCAAGCCACAGGAAAG
TCCAAAACCTCCAACCCAGTCTTACAGACACGGGGTCCCGCTGCACAAGCCACAGATTTTGAGAAGAAG
ATCCTGCTGTGGTCAGCCGCTTCAAGAAGGAGGAAGAGATCCCAGAGACAATCTCATTGAGATGCTTG
ATGCTGCGAAGAACAAGCTCCGGTGAAGGTCAGCTATCTAATGATTGCCCTGACCGTGGCAGGATGCAT
CTATATGGTTATTGAGGGCAAGAAGGCTGCGAAAAGACATGAGTCTTTAAACAAGCTTGAACCTGAAAGG
AAAGCCCGTCTGAGAGAGGAGGCAGCTATGAAGGCCAAAACAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201149 protein sequence
Red=Cloning site Green=Tags(s)

MWSLGGGLRLAAGHCLRLYERNASSSLRFTRNTDLKRINGFCTKQPESPKTPTQSYRHGVPLHKPTDFEKK
ILLWSGRFKEEEEIPETISFEMLDAAKNKLRVKSVMIALTVAGCIYMVIEGKKAARKHESLTSNLER
KARLREEAAMKAKTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_027342

ORF Size: 468 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_027342.2](#)

RefSeq Size: 635 bp

RefSeq ORF: 468 bp

Locus ID: 70186

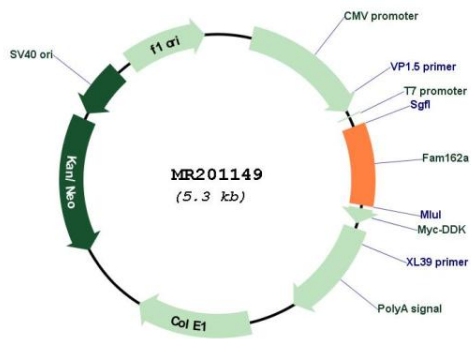
UniProt ID: [Q9D6U8](#)

Cytogenetics: 16 B3

MW: 17.7 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 MR201149