

Product datasheet for **RG207165**

AIFM3 (NM_001018060) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIFM3 (NM_001018060) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AIFM3
Synonyms:	AIFL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207165 representing NM_001018060
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCGGCTGCTTCTCAAACCCAAACCAGTGGAGCTCAAGATCGAGGTGGTGTCTGCCTGAGAAGGAGC
 GAGGCAAGGAGGAGCTGTGCGCCAGTGGGAAGGGCAGCCCCGGGCTACCGAGGCAATGGCACGGCCCG
 CCACTTCCACACGAGGAGCGCCTGTCCACCCCTCACCCCTACCCAGCCCTCAGGATTGCGTGGAGGCT
 GCTGTCTGCCACGTCAAGGACCTCGAGAATGGCCAGATGCGGGAAGTGGAGCTGGGCTGGGGGAAGGTGT
 TGCTGGTGAAGGACAATGGGGAGTTCCACGCCCTGGGCCATAAGTGTCCGCACTACGGCGCACCCCTGGT
 GAAAGGCGTTCTGTCCCCTGGTGGGTGCGCTGCCCTGGCACGGCGCTGCTTCAACATCAGCACTGGG
 GACCTGGAGGACTTCCCTGGCTGGACAGTCTACACAAGTTCAGGTGAAGATTGAGAAGGAGAAGGTGT
 ACGTCCGGCCAGCAAGCAGGCCCTACAGCTGCAGCGAAGGACCAAGGTGATGGCCAAGTGTATCTCTCC
 AAGTGTGGGTACAGCAGTAGCACCAATGTGCTCATTGTGGTGCAGGTGCAGCTGGCCTGGTGTGTGCA
 GAGACTGCGGCAGGAGGGCTTCTCCGACCGGATCGTCCTGTGCAGCTAGACCGGCACCTTCCCTACG
 ACCGTCCCAAGCTCAGCAAGTCCCTGGACACACAGCCTGAGCAGCTGGCCCTGAGGCCAAAGGAGTTTTT
 CCGAGCCTATGGCATCGAGGTGCTCACCAGGCTCAGGTGGTACAGTGGACGTGAGAACTAAGAAGGTC
 GTGTTCAAGGATGGCTTCAAGCTGGAGTACAGCAAGCTGCTGCTGGCACCAGGGAGCAGCCCAAGACTC
 TGAGCTGCAAAGGCAAAGAAGTGGAGAAGCTGTTCACTATCCGGACGCCAGAGGATGCCAATCGCGTGGT
 GAGGCTGGCCCGAGGCCCAACGTGGTTCGTGCTGGGAGCCGGCTTCTGGGGATGGAGGTGGCCGCTTAC
 CTGACGGAGAAGGCCACTCTGTGTCTGTTGGTGGAGCTGGAGGAGACGCCCTTCAAGGAGTTCTGGGGG
 AGCGCTGGGTGCTGCCCTCATGAAGATGTTTGAACAACCCGGTGAAGTTCTACATGCAGACGGAGGT
 GTCTGAGCTGCGGGGCCAGGAGGAAAGCTGAAGGAGTTGTGCTGAAGAGCAGCAAGGTGTCGCGGCT
 GACGTCTGCGTGGTGGGATTGGTGCAGTGCCTGCCACAGGCTTCTGAGGCAAAGCGGCATCGGTTTGG
 ATCCCGAGGCTTCACTCCTGTCAACAAGATGATGCAGACCAATGTCCAGGCGTGTTCAGCTGGCGA
 TGCTGTACCTTCCCCTTGCCTGGAGGAACAACCGCAAAGTGAACATTCACATTGGCAGATGGCTCAT
 GCTCAGGGGCGCTGGCAGCCAGAACATGTTGGCGCAGGAGCGGAGATGAGCACTGTGCCCTACCTCT
 GGACCGCATGTTTGGCAAGAGCCTGCGCTACGCGGGCTACGGAGAAGGCTTCGACGACGTATCATCCA
 GGGGATCTGGAGGAGCTGAAGTTTGTGGCTTTTACACTAAAGGCGACGAGGTGATCGCGTGGCCAGC
 ATGAACACGATCCATTGTGTCCAAGGTGCTGAGGTGCTGGCCTCAGGCCGTGCCATCCGGAAGCGGG
 AGGTGGAGACTGGCGACATGTCCTGGCTTACGGGAAAGGATCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207165 representing NM_001018060
 Red=Cloning site Green=Tags(s)

MGGCFSKPKPVELKIEVVLPEKERGKEEL SASGKGS PRAYQNGTARHFHTEERLSTPHYPSPQDCVEA
 AVCHVKDLENGQMREVELGWGKVLVVDNNGEFHALGHKCPHYGAPLVKGVLSRGRVRCPPWHGACFNISTG
 DLEDFPGLDSLHKFQVKEIEKVVYVRASKQALQLQRRTKVMACISPSAGYSSSTNVLIVGAGAAGLVCA
 ETLRQEGFSDRIVLCTLDRLHPYDRPKLSKSLDTQPEQLALRPKEFFRAYGIEVLTEAQVTVVDRTKKV
 VFKDGFKLEYSKLLLAPGSSPKTLSCKGKEVENVFTIRTPEDANRVVRLARGRNVVVVAGFLGMEVAAY
 LTEKAHSVSVVELEETPFRRFLGERVGRALMKMFENNRVKFYMQTEVSELRGQEGKLEVKLSSKVVRA
 DVCVVGIGAVPATGFLRQSGIGLDSRGFIPVNMMMQTNVPGVFAAGDAVTFPLAWRNNRKNIPHWQMAH
 AQGRVAAQNMLAQEAEMSTVPYLWTAMFGKSLRYAGYGEFGDDVVIQGDLEELKFVAFYTKGDEVI AVAS
 MNYDPIVSKVAEVLASGRAIRKREVETGDMSWLTGKGS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001018060

ORF Size: 1794 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_001018060.3](#)

RefSeq Size: 2360 bp

RefSeq ORF: 1797 bp

Locus ID: 150209

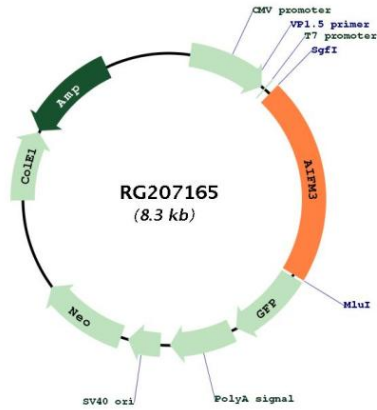
UniProt ID: [Q96NN9](#)

Cytogenetics: 22q11.21

Protein Families: Druggable Genome

Gene Summary: Induces apoptosis through a caspase dependent pathway. Reduces mitochondrial membrane potential.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207165