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Product datasheet for RG228494

AIFM3 (NM_001146288) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIFM3 (NM_001146288) 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)

ORF Nucleotide Sequence:

>RG228494 representing NM_001146288
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGGCTGCTTCTCCAAACCCAAACCAGGCGCTGCCTTGCCCACAGTGGAGCTCAAGATCGAGGTGG
TGCTGCCTGAGAAGGAGCGAGGCAAGGAGGAGCTGTCGGCCAGTGGGAAGGGCAGCCCCCGGGCCTACCA
GGGCAATGGCACGGCCCGCCACTTCCACACGGAGGAGCGCCTGTCCACCCCTCACCCCTACCCCAGCCCT
CAGGATTGCGTGGAGGCTGCTGTCTGCCACGTCAAGGACCTCGAGAATGGCCAGATGCGGGAAGTGGAGC
TGGGCTGGGGGAAGGTGTTGCTGGTGAAGGACAATGGGGAGTTCCACGCCCTGGGCCATAAGTGTCCGCA
CTACGGCGCACCCCTGGTGAAAGGCGTTCTGTCCCGTGGTCGGGTGCGCTGCCCCTGGCACGGCGCCTGC
TTCAACATCAGCACTGGGGACCTGGAGGACTTCCCTGGCCTGGACAGTCTACACAAGTTCCAGGTGAAGA
TTGAGAAGGAGAAGGTGTACGTCCGGGCCAGCAAGCAGGCCCTACAGCTGCAGCGAAGGACCAAGGTGAT
GGCCAAGTGTATCTCTCCAAGTGCTGGGTACAGCAGTAGCACCAATGTGCTCATTGTGGGTGCAGGTGCA
GCTGGCCTGGTGTGTGCAGAGACACTGCGGCAGGAGGGCTTCTCCGACCGGATCGTCCTGTGCACGCTAG
ACCGGCACCTTCCCTACGACCGTCCCAAGCTCAGCAAGTCCCTGGACACACAGCCTGAGCAGCTGGCCCT
GAGGCCCAAGGAGTTTTTCCGAGCCTATGGCATCGAGGTGCTCACCGAGGCTCAGGTGGTCACAGTGGAC
GTGAGAACTAAGAAGGTCGTGTTCAAGGATGGCTTCAAGCTGGAGTACAGCAAGCTGCTGCTGGCACCAG
GGAGCAGCCCCAAGACTCTGAGCTGCAAAGGCAAAGAAGTGGAGAACGTGTTCACTATCCGGACGCCAGA
GGATGCCAATCGCGTGGTGAGGCTGGCCCGAGGCCGCAACGTGGTCGTCGTGGGAGCCGGCTTCCTGGGG
ATGGAGGTGGCCGCTTACCTGACGGAGAAGGCCCACTCTGTGTCTGTGGTGGAGCTGGAGGAGACGCCCT
TCAGGAGGTTCCTGGGGGAGCGCGTGGGTCGTGCCCTCATGAAGATGTTTGAGAACAACCGGGTGAAGTT
CTACATGCAGACGGAGGTGTCTGAGCTGCGGGGCCAGGAGGGAAAGCTGAAGGAGGTTGTGCTGAAGAGC
AGCAAGGTCGTGCGGGCTGACGTCTGCGTGGTGGGCATTGGTGCAGTGCCCGCCACAGGCTTCCTGAGGC
AAAGCGGCATCGGTTTGGATTCCCGAGGCTTCATCCCTGTCAACAAGATGATGCAGACCAATGTCCCAGG
CGTGTTTGCAGCTGGCGATGCTGTCACCTTCCCCCTTGCCTGGAGGAACAACCGCAAAGTGAACATTCCA
CATTGGCAGATGGCTCATGCTCAGGGGCGCGTGGCAGCCCAGAACATGTTGGCGCAGGAGGCGGAGATGA
GCACTGTGCCCTACCTCTGGACCGCCATGTTTGGCAAGAGCCTGCGCTACGCGGGCTACGGAGAAGGCTT
CGACGACGTCATCATCCAGGGGGATCTGGAGGAGCTGAAGTTTGTGGCTTTTTACACTAAAGGCGACGAG
GTGATCGCCGTGGCCAGCATGAACTACGATCCCATTGTGTCCAAGGTCGCTGAGGTGCTGGCCTCAGGCC
GTGCCATCCGGAAGCGGGAGGTGGAGACTGGCGACATGTCCTGGCTTACGGGGAAAGGATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

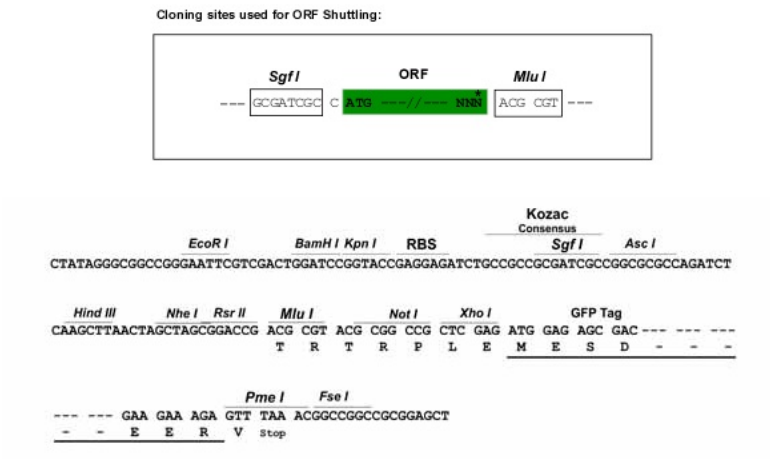
>RG228494 representing NM_001146288
Red=Cloning site Green=Tags(s)

MGGCFSKPKPGAALPTVELKIEVVLPEKERGKEELSASGKGSPRAYQGNGTARHFHTEERLSTPHPYPSP
QDCVEAAVCHVKDLENGQMREVELGWGKVLLVKDNGEFHALGHKCPHYGAPLVKGVLSRGRVRCPWHGAC
FNISTGDLEDFPGLDSLHKFQVKIEKEKVYVRASKQALQLQRRTKVMAKCISPSAGYSSSTNVLIVGAGA
AGLVCAETLRQEGFSDRIVLCTLDRHLPYDRPKLSKSLDTQPEQLALRPKEFFRAYGIEVLTEAQVVTVD
VRTKKVVFKDGFKLEYSKLLLAPGSSPKTLSCKGKEVENVFTIRTPEDANRVVRLARGRNVVVVGAGFLG
MEVAAYLTEKAHSVSVVELEETPFRRFLGERVGRALMKMFENNRVKFYMQTEVSELRGQEGKLKEVVLKS
SKVVRADVCVVGIGAVPATGFLRQSGIGLDSRGFIPVNKMMQTNVPGVFAAGDAVTFPLAWRNNRKVNIP
HWQMAHAQGRVAAQNMLAQEAEMSTVPYLWTAMFGKSLRYAGYGEGFDDVIIQGDLEELKFVAFYTKGDE
VIAVASMNYDPIVSKVAEVLASGRAIRKREVETGDMSWLTGKGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

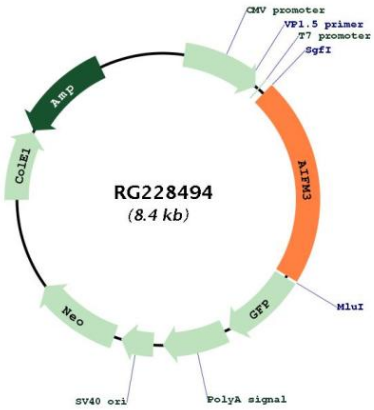


ACCN:	NM_001146288
ORF Size:	1812 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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_001146288.2
RefSeq Size:	2439 bp
RefSeq ORF:	1815 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 RG228494