

Product datasheet for **MR209288**

Aifm3 (NM_175178) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aifm3 (NM_175178) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aifm3
Synonyms:	2810401C16Rik; AI840249; Aifl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209288 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCGGCTGCTTCTCCAAGCCCAAGCCAGTGGAGCTCAAGATTGAAGTGGTGTCTGCCAGAGAAGAGC
 GGGCAAGGAGGAGCTGTCAAGCCAGCGAAAGGGCAGCCCCGGGTTACCAAGGCAACGGCACAGCACG
 CCACTTCCATGCTGAAGAGCGGCTGCCACCCCAACCCATCCAGCCCTCAGACTGTGTGGAGGCT
 ACTGTCTGCCATGTCAAGGACCTCGAGAATGGCCAGATGCGGGAAGTGGAGCTGGGCTGGGGAAAGGTGT
 TGCTGGTGAAGGACAATGGGGAATTCATGCCCTGGCCATAAGTGTCTCACTATGGAGCGCCCTGGT
 GAAAGGTGTACTGTCCCGGGGACGTGTGCGCTGCCCTGGCATGGTGCCTGCTTCAACATTAGTACTGGG
 GACCTAGAGGACTTCCAGGCCCTGGACAGCCTGCATAAGTCCAGGTGAAGATTGAGAAGGAGAAGGTGA
 CCATTCGGCAAGCAAGCAGGCCCTGCAGCTACAGCGGAGGACAAAGGTGATGGCCAAGTGTATCTCTCC
 AAGTGTGGCCACAGCAGTAGCACCAACGTGCTCATAGTGGGTGCAGGTGCTGCTGGCCTAGTGTGTGCA
 GAAACTGAGGCAGGAGGGCTTCTCAGACCGGATTGTCCTTTGCACACTGGATCGACATCTGCCCTATG
 ACCGGGCCAAGCTCAGCAAGTCCCTGGATGCACAACCCGAACAGCTGGCCCTGAGACCCAAGGAATCTT
 CCGGGCTATGGCATTGAGATGCTCACTGAGGCTCAGGTAGTCACAGTGGACGTGAGAAAATAAGAAGTT
 GTGTTCAAGGATGGCTTCAAGCTAGAGTACAGCAAGCTGCTGCTGGCACCAGGAAGTAGCCCTAAGACCC
 TGACCTGCAAAGGGAAAGATGTAGAGAATGTGTTACCATTGCGACGCCCCGAGGATGCCAACCGCGTGT
 GCGGCTCGCCCGGGCCCAATGCTGTTGTTGTGGGAGCAGGCTTCTGGGAATGGAGTTGCTGCTTAT
 CTGACTGAGAAAGCCCACTCAGTATCCGTGGTAGAGCTGGAGGAGACACCCTCCGGAGGTTCTGGGGG
 AACGTGTTGGTGCCTTATGAAGATGTTGAAAACAACCGGTTGAAGTTCTATATGCAGACAGAGGT
 GTCAGAGTTGCGGGCTCAAGAGGGCAAGCTGCAGGAGGTGGTGTGAAGAGCAGCAAAAGTCTGCGAGCA
 GATGTCTGCGTGTAGGCATTGGTGCGGTGCCTGCCACAGGCTTCTGAGGCAGAGTGGCATTGGTCTGG
 ATTCCCGAGGTTTCATCCAGTCAACAAGATGATGCAGACCAACGTCACAGGAGTGTGCTGCAGGTGA
 TGCTGTACCTTTCTCTGCTGGAGGAACAATCGGAAAGTGAACATCCACACTGGCAGATGGCTCAC
 GCCCAGGGGCGGGTAGCAGCTCAGAACATGCTGGCACAGGAGGCTGAGATCAACACGGTACCCTATCTGT
 GGACTGCCATGTTGCGCAAAAGCCTTCGCTATGCTGGCTACGGAGAAGGCTTCGATGATGCATCATTCA
 GGGGATCTGGAGGAGCTGAAGTTGTGGCTTTTATACCAAAAGTGACGAAGTATTGCTGTGGCCAGC
 ATGAACTACGATCCCATCGTATCCAAGGTGGCTGAGGTGCTAGCCTCAGGTGAGCCATCCGGAAGCGGG
 AGGTGAAACCGGTGACATGCTTGGTACAGGAAAAGGATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209288 protein sequence
 Red=Cloning site Green=Tags(s)

MGGCFSKPKPVELKIEVVLPEKERGKEEL SASGKGS PRGYQNGTARHFHAEERLPTPQPYPSPQDCVEA
 TVCHVKDLENGQMREVELGWGKVL VKDNGEFHALGHKCPHYGAPLVKGVLSRGRVRCPPWHGACFNISTG
 DLEDFPGLDSLHKFQVKIEKEKVTIRASKQALQLQRRTKVMACISPSAGHSSSTNVLIVGAGAAGLVCA
 ETLRQEGFSDRIVLCTLDRLHPYDRAKLSKSLDAQPEQLALRPKEFFRAYGIEMLTEAQVVTVDVRNKKV
 VFKDGFKLEYSKLLLAPGSSPKLTCCKGKDVENVFTIRTPEDANRVLRLARGRNAVVVGAGFLGMEVAAY
 LTEKAHSVSVVELEETPFRRFLGERVGRALMKMFENNRVKFYMQTEVSELRAQEGKLQEVVLKSSKVLRA
 DVCVLGIGAVPATGFLRQSGIGLDSRGFIPVNKMMQTNVPGVFAAGDAVTFPLAWRNNRKVNIPIHQMAH
 AQGRVAAQNMLAQEAEINTVPYLWTAMFGKSLRYAGYGEFDDVVIQGDLEELKFVAFYTKSDEIVAVAS
 MNYDPIVSKVAEVLASGRAIRKREVETGDMSWLTGKGS

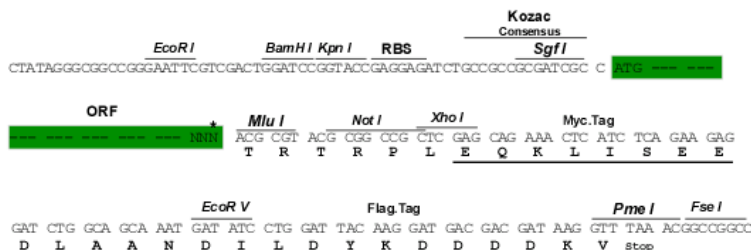
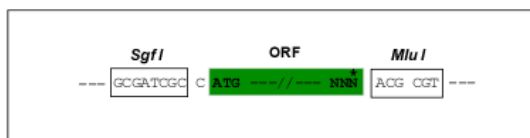
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_175178

ORF Size: 1797 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_175178.4](#), [NP_780387.2](#)
RefSeq Size: 2688 bp

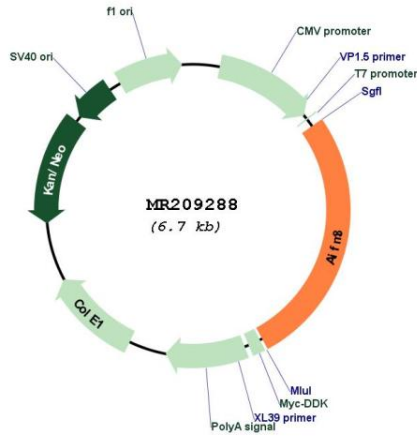
RefSeq ORF: 1797 bp

Locus ID: 72168

UniProt ID: [Q3TY86](#)

Cytogenetics: 16 A3
MW: 65.9 kDa
Gene Summary: Induces apoptosis through a caspase dependent pathway. Reduces mitochondrial membrane potential (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209288