

Product datasheet for **MC228455**

Aifm1 (NM_001290364) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aifm1 (NM_001290364) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aifm1
Synonyms:	AIF; AIFsh2; Hq; Pdcd8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228455 representing NM_001290364
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCGGTGTGGAGGCTGGCGGGTCTTTCAAGCAGAACTGGTGCCCTTGGTGCGGACGGTGTACG
 TCCAGAGGCCGAAACAGAGGAACCGGCTTCCAGTTGTGCAGTGTATCTCCTAGGATCCCCTTCTAGAAC
 ACTAGCGTCTGCAGGTGCTTCTGGGAAAGATGGCAGCAGCCTAGTATACTTCTTAATTGTAGGAGCAACA
 GTGACTGGGGCAGGAATTTATTATGCCTACAAAATAAAAAGAAGACAAAAAGATACAATGAAAGAG
 TGATGGGATTAGGACTGTCCCAGAAGAGAAAACAGAGAAGAGCCATTGCCTCCGCTACAGAGGGAGGCTC
 AGTTCCTCAGATCAGGGCACCAAGTCACGTCCCTTCTGCTGATTGGTGGAGGGACTGCTGCTTTTGA
 GCAGCCAGATCCATCCGGCTCGGGATCTGGGGCAGGGTCTGATTGTATCTGAAGACCTGAAGTGC
 CATACATGCGACCTCTCTTTAAAAGAATTGTGGTTTTAGATGATCCAATGTCACAAAGACACTGCA
 ATTCAGACAGTGAATGAAAAGAGAGAAGCATATATTTCCAGCCACCTCTTTCTATGTCTCTGCTCAG
 GACCTGCCTAATATTGAGAACGGTGGTGTGGCTGTCTACTGGGAAAAAGGTAGTACATCTGGATGTAA
 GAGGCAACATGGTGAACTTAATGATGGCTCTCAGATTACCTTTGAAAAGTGCTTGATTGCAACGGGAGG
 CACTCCAAGAAGTCTGTCTGCCATCGATAGGGCTGGAGCAGAGGTGAAGAGTAGAACAACACTTTTCAGG
 AAGATTGGAGATTTTAGAGCCTTGGAGAAGATCTCTCGGGAGGTCAAGTCAATTACAGTTATCGGCGGGG
 GCTTCTTGGGAGTGAGCTGGCCTGTGCTCTTGGCAGAAAGTCTCAAGCCTCGGGCATAGAAGTGATCCA
 GCTGTTCCCTGAGAAAGGAAATATGGGGAAGATCCTTCTCAATACCTCAGCAACTGGACCATGGAAAAA
 GTCAAACAGAGGGAGTGAAAGTGTGCCAATGCAATTGTACAATCAGTTGGAGTCAGCGGTGGCAGGT
 TACTCATTAAAGCTGAAAGATGGAAGGAAGTGAAGAACTGACCACATAGTGACAGCTGTGGGCTAGAGCC
 CAATGTTGAGTTGGCCAAGACTGGCGGACTGGAATAGATTCGGATTTTGGTGGCTTCCGGGTAATGCA
 GAACTCCAAGCACGTTCTAACATCTGGGTGGCAGGGGATGCTGCATGCTTCTATGATATAAAGTTGGGTC
 GAAGGCGAGTAGAGCATCATGATCATGCTGTTGTGAGTGAAGACTGGCTGGAGAAAAACATGACTGGAGC
 CGCTAAGCCATACTGGCATCAGTCAATGTTCTGGAGTATTTGGGCTCTGATGTCGGCTATGAAGCTATT
 GGTCTGGTGGATAGTAGTTTGGCCACAGTTGGTGTGTTTTGCAAAAGCAACTGCACAAGACAACCCAAAT
 CTGCCACAGAGCAGTCAGGAAGTGTATCCGTTCCGAGAGTGAGACAGAGTCAGAAGCTTCGGAAATCAC
 AATTCTCCAGCGCCCCTGCAGTCCCACAGTCCCTGTTGAAGGGGAGGACTACGGCAAAGGTGTCATC
 TTCTACCTCAGGGACAAAGTTGTGGTGGGATTGTGCTATGGAACGTCTTAACCGAATGCCAATTGCAA
 GGAAGATCATTAAAGACGGTGGCAACATGAAGATCTCAATGAAGTAGCTAAACTCTTCAACATTATGA
 AGATTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001290364
- Insert Size:** 1827 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:	<ol style="list-style-type: none">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:	<u>NM_001290364.1</u> , <u>NP_001277293.1</u>
RefSeq Size:	2237 bp
RefSeq ORF:	1827 bp
Locus ID:	26926
UniProt ID:	<u>Q9Z0X1</u>
Cytogenetics:	X 25.68 cM
Gene Summary:	<p>Functions both as NADH oxidoreductase and as regulator of apoptosis. In response to apoptotic stimuli, it is released from the mitochondrion intermembrane space into the cytosol and to the nucleus, where it functions as a proapoptotic factor in a caspase-independent pathway. In contrast, functions as an antiapoptotic factor in normal mitochondria via its NADH oxidoreductase activity. The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i.e. caspase-independent fragmentation of chromosomal DNA. Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates caspase-7 to amplify apoptosis. Plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells. Binds to DNA in a sequence-independent manner (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an exon and contains an alternate exon in the 5' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>