

Product datasheet for MR229550

Aifm2 (NM_178058) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aifm2 (NM_178058) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aifm2
Synonyms:	5430437E11Rik; Amid; D730001110Rik; PRG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229550 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTCCCAGGTCTCGGTGGATACAGGAGCCGTGCACGTGGTATCGTGGGCGGGGGCTTCGGAGGGA
TAGCGGCTGCCAGCCAGCTGCAGGCGTGAATGTCCCCTCATGCTGGTGGATATGAAGGACTCCTTCCA
CCACAATGTGGCAGCCCTCCGGGCTCCGTGGAGAGCGGGTTCGCCAAAAGACATTCATTTCTGACTCT
GCGACCTCAAGGACAACCTCCGCCAGGCAAAGTGATTGGCATAGACTGAAGAACCGGATGGTGTTC
TACAGGTGGCGAGGCCCTTCCCTTCTCACATCTATCCTGGCCACAGGCAGCACCGGACCTTCCCTGG
CAAGTTTAACGAGGTGTCTGCCAGCAGGCAGCCATCCAGGCCTATGAGGACATGGTGAAGCAGATCCAG
CGCTCACAAATTCATCGTGGTGGTGGGAGGCGGCTCTGCAGGAGTAGAGATGGCAGCAGAGATTAACCCG
AGTACCCTGAGAAGGAGGTCACTCTTATCCACTCCAGAGTACCCCTGGCCGACAAGGAACTCCTGCCCTG
TGTGCGGCAGGAAGTGAAGGAGATCCTCCTCCGGAAGGGTGTGCAGCTGCTGCTGAGTGAGCGGGTGA
AACCTGGAGGAACTGCCTCGCAATGAGTATCGGGAGTACATCAAGGTGGAGACAGACAAGGGCACGGAGG
TGGCCACCAACATGGTATTGTGTGCAATGGGATCAAGATCAACAGCTCTGCCTACCGCAGTGCAATTTGA
GAGTAGGCTGGCTAGCAATGGTGTCTGAAAGTGAACGAGTTCCTCCAGGTGGAAGGTTACAGCAATATT
TATGCCATTGGTGACTGTGCCGATACCAAGGAGCCCAAGATGGCCTACCGCTGGCCTGCATGCCAATG
TTGCCGTGGCCAACATCGTCAACTCCATGAAGCAGAGGCCACTCAAAGCTTACAAGCCAGGTGCGCTGAC
ATTCTCTGTCCATGGGCAGAAATGATGGCGTGGGTGAGATCAGTGGCTTCTACGTAGGCCGCTCATG
GTGCGGCTGGCCAAGAGCAGGGACCTTCTCATCTCCACAAGCTGGAAAACCATGCGGCAGTCTCCACCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR229550 protein sequence
 Red=Cloning site Green=Tags(s)

MGSQVSVDTGAVHVVIVGGGFGGIAAASQLQALNVPFMLVDMKDSFHHNVAALRASVESGFAKKTFFISYS
 ATFKDNFRQGVIGIDLKNRMVLLQGGEALPFSHLILATGSTGPFPGKFNEVSCQQAIIQAYEDMVKQIQ
 RSQFIVVYGGGSAGVEMAAEIKTEYPEKEVTLIHSRVPLADKELLPCVRQEVKEILLRKGVQLLLSERVS
 NLEELPRNEYREYIKVETDKGTEVATNMVIVCNGIKINSSAYRSAFESRLASNGALKVNEFLQVEGYSNI
 YAIGDCADTKPKMAYHAGLHANVAVANIYNSMKQRPLKAYKPGALTFLLSMGRNDGVGQISGFYVGRML
 VRLAKSRDLLISTSWKTRMQSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178058

ORF Size: 1119 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_178058.4](#), [NP_835159.1](#)

RefSeq Size: 1490 bp

RefSeq ORF: 1122 bp

Locus ID: 71361

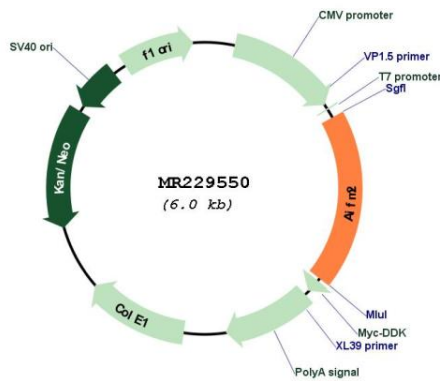
UniProt ID: [Q8BUE4](#)

Cytogenetics: 10 B4

MW: 40.6 kDa

Gene Summary: Oxidoreductase, which may play a role in mediating a p53/TP53-dependent apoptosis response. Probable oxidoreductase that acts as a caspase-independent mitochondrial effector of apoptotic cell death (By similarity). May contribute to genotoxin-induced growth arrest.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229550