

## Product datasheet for MR205050

### Aifm2 (NM\_153779) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aifm2 (NM_153779) 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:	>MR205050 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGTCCCAGGTCTCGGTGGATACAGGAGCCGTGCACGTGGTATCGTGGGCGGGGGCTTCGGAGGGA  
TAGCGGCTGCCAGCCAGCTGCAGGCGTGAATGTCCCCTCATGCTGGTGGATATGAAGGACTCCTTCCA  
CCACAATGTGGCAGCCCTCCGGGCTCCGTGGAGAGCGGGTTCGCCAAAAGACATTCATTTCTACTCT  
GCGACCTCAAGGACAACCTCCGCCAGGGCAAAGTGATTGGCATAGACTGAAGAACCGGATGGTGTTC  
TACAGGGTGGCGAGGCCCTTCCCTTCTCACATCTATCCTGGCCACAGGCAGCACCGGACCTTCCCTGG  
CAAGTTTAACGAGGTGTCTGCCAGCAGGCAGCCATCCAGGCCTATGAGGACATGGTGAAGCAGATCCAG  
CGCTCACAAATTCATCGTGGTGGTGGGAGGCGGCTCTGCAGGAGTAGAGATGGCAGCAGAGATTAACCCG  
AGTACCCTGAGAAGGAGGTCACTCTTATCCACTCCAGAGTACCCCTGGCCGACAAGGAACTCCTGCCCTG  
TGTGCGGCAGGAAGTGAAGGAGATCCTCCTCCGGAAGGGTGTGCAGCTGCTGCTGAGTGAGCGGGTGA  
AACCTGGAGGAACTGCCTCGCAATGAGTATCGGGAGTACATCAAGGTGGAGACAGACAAGGGCACGGAGG  
TGGCCACCAACATGGTATTGTGTGCAATGGGATCAAGATCAACAGCTCTGCCTACCGCAGTGCAATTTGA  
GAGTAGGCTGGCTAGCAATGGTGTCTGAAAGTGAACGAGTTCCTCCAGGTGGAAGGTTACAGCAATATT  
TATGCCATTGGTGACTGTGCCGATACCAAGGAGCCCAAGATGGCCTACCGCTGGCCTGCATGCCAATG  
TTGCCGTGGCCAACATCGTCAACTCCATGAAGCAGAGGCCACTCAAAGCTTACAAGCCAGAGACTGACCA  
ACCACCGCAGCTTTGTCCCGGCTCTGCTGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205050 protein sequence  
Red=Cloning site Green=Tags(s)

MGSQVSVDTGAVHVVIVGGGFGGIAAASQLQALNVPFMLVDMKDSFHHNVAALRASVESGFAKKTFISYS  
 ATFKDNFRQGVIGIDLKNRMVLLQGGEALPFSHLILATGSTGPFPGKFNEVSCQQAIIQAYEDMVKQIQ  
 RSQFIVVVGGSAGVEMAAEIKTEYPEKEVTLIHSRVPLADKELLPCVRQEVKEILLRKGVQLLLSERVS  
 NLEELPRNEYREYIKVETDKGTEVATNMVIVCNGIKINSSAYRSAFESRLASNGALKVNEFLQVEGYSNI  
 YAIGDCADTKPKMAYHAGLHANVAVANI VNSMKQRPLKAYKPETDQPPAAL SPALLL

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\_153779

**ORF Size:** 1014 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_153779.1](#)

**RefSeq Size:** 1351 bp

**RefSeq ORF:** 1143 bp

**Locus ID:** 71361

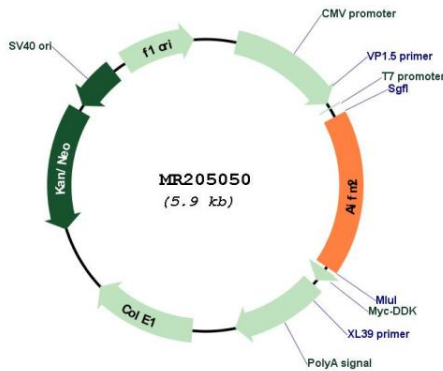
**UniProt ID:** [Q8BUE4](#)

**Cytogenetics:** 10 B4

**MW:** 36.7 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 MR205050