

## Product datasheet for MR203791

### Aimp2 (NM\_146165) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aimp2 (NM_146165) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aimp2
Synonyms:	AA407136; AA407225; Aimp2(p38); Jtv1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203791 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGATGTACCAGGAAACATCCGAGCCTTCTTTGCAAGCCCTTGAATCTCGCCAAGATGATATTTAA  
AACGCTTGATGAGTTGAAGGCAGCAGTCGATGGCCTTTCAAAGATGATTCACACCCAGATGCAGACTT  
GGACGTAACCAACATCCTGCAAGCTGATGAGCCACAACCTTAGCCACAAACACATTGGACTTGAATTCC  
GTGCTTGAAAGGACTATGGGGCGCTGAAAGACATTGTGATCAACGCAAACCCAGCCTCCCACCACTGT  
CCCTGCTTGTGCTGCACAGGCTGCTCTGTGAACGCTACAGGGTCTGTCCACTGTGCACACACATTCGTC  
TGTCAAGAATGTCCCGAGAATCTGTCAAGTGCTTCGGGGAGCAGGCTAGGAAGCAGTCCCGCCACGAG  
TATCAGCTGGGCTTCACTCTGATTTGGAAGAATGTGCCAAGACACAGATGAAGTTCAGTGTACAAACCA  
TGTGCCCATGAAGGAGAAGGGAACATCGCACGTTTCTGTTCTCTGTTTGGCCAGAAGCATAATGC  
TGTCAACCTCACCTCATCGATAGCTGGGTGGATATCGCCATGTTTCAGCTTCGAGAAGGCAGCAGTAAA  
GAAAAAGCGGCCGTGTTCCGCTCTATGAACTCCGCTTTGGGGAGGAGCCCGTGGCTGGTTGGAATGAGC  
TCACTGTGGCAGATGTGGTGTGTGGTCTGTGCTCCAGCAGACTGGGGCAGCAGTGGGGCAGCACCCAC  
CAATGTGACGCGGTGGCTTAAGTCTGTGAAAACCTGGCCCCCTCAGCACTGCCCTTCAGCTCCTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203791 protein sequence  
 Red=Cloning site Green=Tags(s)

MPMYQETSEPSLQALESRQDDILKRLYELKAAVDGLSKMIHTPDADLDVTNILQADEPTTLATNTLDLNS  
 VLGKDYGALKDIVINANPASPPLSLLVLHRLLCERYRVLSTVHTHSSVKNVPENLVKCFGEQARKQSRHE  
 YQLGFTLIWKNVPKTQMKFSVQTMCPIEGEGNIARFLFSLFGQKHNAVTLTLIDSWVDIAMFQLREGSSK  
 EKA AVFRSMNSALGRSPWL VGNELTVADVVLWSVLQQTGGSSGAAPTINVQRWLKSCENLAPFSTALQLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_146165

**ORF Size:** 843 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\\_146165.2](#)

**RefSeq Size:** 1090 bp

**RefSeq ORF:** 843 bp

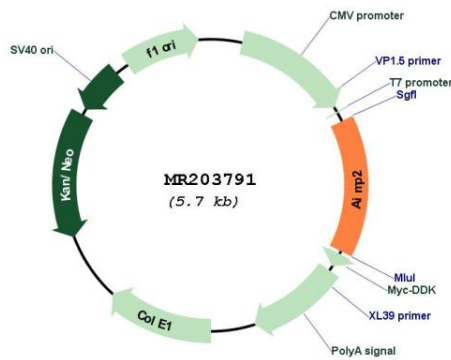
**Locus ID:** 231872

**Cytogenetics:** 5 G2

**MW:** 31.1 kDa

**Gene Summary:** Required for assembly and stability of the aminoacyl-tRNA synthase complex (PubMed:12060739). Mediates ubiquitination and degradation of FUBP1, a transcriptional activator of MYC, leading to MYC down-regulation which is required for aveolar type II cell differentiation (PubMed:12819782). Blocks MDM2-mediated ubiquitination and degradation of p53/TP53 (PubMed:18695251). Functions as a proapoptotic factor (PubMed:16135753). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR203791