

Product datasheet for **MR221050**

Aimp2 (NM_001172146) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aimp2 (NM_001172146) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Aimp2
Synonyms: AA407136; AA407225; Aimp2(p38); Jtv1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR221050 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCGATGTACCAGGTAAGCCCTATCATGGAGGCAGCGCACCTCTGCATGTAGAGCTTCCAACCTGCA
TGTAACCGCTCCCAACGTGCACAGCAAGACCACCAGCCCGCCACCGACGCGGGCCACGTGCAGGAAAC
ATCCGAGCCTTTTGAAGCCCTTGAATCTCGCCAAGATGATATTTAAAACGCTTGTATGAGTTGAAG
GCAGCAGTCGATGGCCTTCAAAGATGATTCACACCCAGATGCAGACTTGGACGTAACCAACATCCTGC
AAGCTGATGAGCCACAACCTTTAGCCACAACACATTGGACTTGAATTCGCTGCTTGAAAGGACTATGG
GGCGTGAAAGACATTGTGATCAACGAAACCCAGCCTCCCAACACTGTCCCTGCTTGTGCTGCACAGG
CTGCTCTGTGAACGCTACAGGGTCTGTCCACTGTGCACACACATTTCGTCTGTCAAGATGTGCCGAGA
ATCTTGTCAAGTGCTTCGGGGAGCAGGCTAGGAAGCAGTCCCGCCACGAGTATCAGCTGGGCTTCACTCT
GATTTGGAAGAATGTGCCAAGACACAGATGAAGTTCAGTGTACAACCATGTGCCCATGAAGGAGAA
GGGAACATCGCACGTTTCTGTCTCTGTGTTGGCCAGAAGCATAATGCTGTCAACCTCACCTCATCG
ATAGCTGGGTGGATATGCCATGTTTCAGCTTCGAGAAGGCAGCAGTAAAGAAAAAGCGCGCTGTTCCG
CTCTATGAACTCCGCTTTGGGGAGGAGCCGCTGGCTGGTTGAAAATGAGCTCACTGTGGCAGATGTGGTG
CTGTGGTCTGTGCTCCAGCAGACTGGGGCAGCAGTGGGGCAGCACCCACCAATGTGCAGCGGTGGCTTA
AGTCTGTGAAAACCTGGCCCCCTCAGCACTGCCCTTCAGCTCCTTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221050 protein sequence
Red=Cloning site Green=Tags(s)

MPMYQVKPYHGGSAPLHVELPTCMYRLPNVHSKTTSPATDAGHVQETSEPSLQALESRQDDILKRLYELK
AAVDGLSKMIHTPADLDVTNIIQADEPTTLATNTLDLNSVLGKDYGALKDIVINANPASPPLSLLVLR
LLCERYRVLSTVHTHSSVKNVPENLVKCFGEQARKQSRHEYQLGFTLIWKNVPKTMKFSVQTMCPIEGE
GNIARFLFLSLFGQKHNAVTLTLIDSWVDIAMFQLREGSSKEKAAVFRSMNSALGRSPWL VGNELTVADV
LWSVLQQTGGSSGAAPTNVQRWLKSCENLAPFSTALQLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

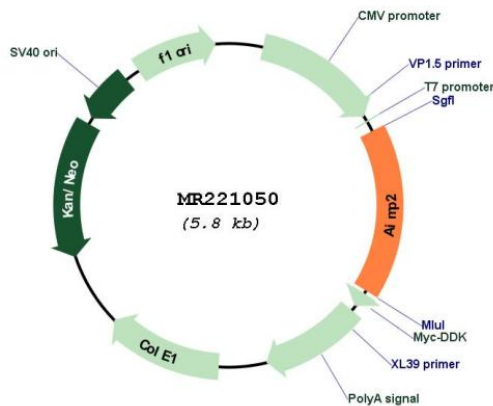
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001172146

ORF Size: 960 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:	<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:	NM_001172146.1 , NP_001165617.1
RefSeq Size:	1210 bp
RefSeq ORF:	963 bp
Locus ID:	231872
UniProt ID:	Q8R010
Cytogenetics:	5 G2
MW:	35.4 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]