

## Product datasheet for **MG221050**

### Aimp2 (NM\_001172146) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aimp2 (NM_001172146) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aimp2
Synonyms:	AA407136; AA407225; Aimp2(p38); Jtv1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221050 representing NM_001172146 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGATGTACCAGGTAAGCCCTATCATGGAGGCAGCGCACCTCTGCGTGTAGAGCTTCCAACCTGCA  
TGTACCGGCTCCCAACGTGCACAGCAAGACCACCAGCCCGCCACCGACGCGGGCCACGTGCAGGAAAC  
ATCCGAGCCTTCTTTGCAAGCCCTTGAATCTCGCCAAGATGATATTTAAAACGCTTGTATGAGTTGAAG  
GCAGCAGTCGATGGCCTTCAAAGATGATTCACACCCAGATGCAGACTTGGACGTAACCAACATCTCTGC  
AAGCTGATGAGCCACAACCTTTAGCCACAAACACATTGGACTTGAATTCGTCGTTGGAAAGGACTATGG  
GGCGCTGAAAGACATTGTGATCAACGCAAACCCAGCCTCCCAACCACTGTCCCTGCTTGTGCTGCACAGG  
CTGCTCTGTGAACGCTACAGGGTCTGTCCACTGTGCACACACATTCGTCTGTCAAGAATGTGCCCGAGA  
ATCTTGTCAAGTCTTCGGGGAGCAGGCTAGGAAGCAGTCCCGCCACGAGTATCAGCTGGGCTTCACTCT  
GATTTGGAAGAATGTGCCAAGACACAGATGAAGTTCAGTGTACAACCATGTGCCCATTTGAAGGAGAA  
GGGAACATCGCACGTTTCTCTCTCTGTTTGGCCAGAAGCATAATGCTGTCAACCTCACCTCATCG  
ATAGCTGGGTGGATATCGCCATGTTTCACTTCGAGAAGGCAGCAGTAAAGAAAAAGCGGCCGTGTTCCG  
CTCTATGAACTCCGCTTTGGGGAGGAGCCCGTGGCTGGTTGAAATGAGCTCACTGTGGCAGATGTGGTG  
CTGTGGTCTGTGCTCCAGCAGACTGGGGCAGCAGTGGGGCAGCACCCACCAATGTGCAGCGGTGGCTTA  
AGTCCTGTGAAAACCTGGCCCCCTTCAGCACTGCCCTTCAGCTCCTTAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221050 representing NM\_001172146  
 Red=Cloning site Green=Tags(s)

MPMYQVKPYHGGSAPLRVELPTCMYRLPNVHSKTTSPATDAGHVQETSEPSLQALESRQDDILKRLYELK  
 AAVDGLSKMIHTPDADLDVTNIIQADEPTTLATNTLDLNSVLGKDYGALKDIVINANPASPPLSLLVLHR  
 LLCERYRVLSTVHTHSSVKNVPENLVKCFGEQARKQSRHEYQLGFTLIWKNVPKTQMKFSVQTMCPIEG  
 GNIARFLFLSFGQKHNAVTLTLIDSWVDIAMFQLREGSSKEKAAVFRSMNSALGRSPWL VGNELTVADV  
 LWSVLQQTGGSSGAAPTNVQRWLKSCENLAPFSTALQLLK

TRTRPLE - GFP Tag - V

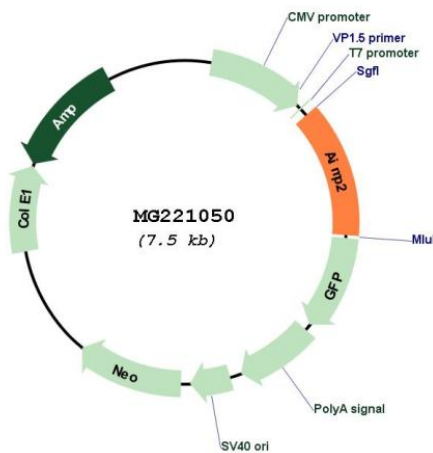
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001172146

**ORF Size:** 960 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001172146.1</a> , <a href="#">NP_001165617.1</a>
<b>RefSeq Size:</b>	1210 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	231872
<b>UniProt ID:</b>	<a href="#">Q8R010</a>
<b>Cytogenetics:</b>	5 G2
<b>Gene Summary:</b>	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]