

Product datasheet for **MG203791**

Aimp2 (NM_146165) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aimp2 (NM_146165) 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:	>MG203791 representing NM_146165 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGATGTACCAGGAAACATCCGAGCCTTCTTTGCAAGCCCTTGAATCTCGCCAAGATGATATTTTAA
AACGCTTGATGAGTTGAAGGCAGCAGTCGATGGCCTTTCAAAGATGATTCACACCCAGATGCAGACTT
GGACGTAACCAACATCCTGCAAGCTGATGAGCCACAACCTTAGCCACAAACACATTGGACTTGAATTCC
GTGCTTGAAAGGACTATGGGGCGCTGAAAGACATTGTGATCAACGCAAACCCAGCCTCCCACCACTGT
CCCTGCTGTGCTGCACAGGCTGCTCTGTGAACGCTACAGGGTCTGTCCACTGTGCACACACATTCGTC
TGCAAGAATGTCCCGAGAATCTGTCAAGTGCTTCGGGGAGCAGGCTAGGAAGCAGTCCCGCCACGAG
TATCAGCTGGGCTTCACTCTGATTTGGAAGAATGTGCCAAGACACAGATGAAGTTCAGTGTACAAACCA
TGTGCCCATGAAGGAGAAGGGAACATCGCACGTTTCCTGTTCTCTCTGTTTGGCCAGAAGCATAATGC
TGTCAACCTCACCTCATCGATAGCTGGGTGGATATCGCCATGTTTCAGCTTCGAGAAGGCAGCAGTAAA
GAAAAAGCGGCCGTGTTCCGCTCTATGAACTCCGCTTTGGGGAGGAGCCCGTGGCTGGTTGGAATGAGC
TCACTGTGGCAGATGTGGTGCTGTGGTCTGTGCTCCAGCAGACTGGGGCAGCAGTGGGGCAGCACCCAC
CAATGTGCAGCGGTGGCTTAAGTCTGTGAAAACCTGGCCCCCTCAGCACTGCCCTTCAGCTCCTTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203791 representing NM_146165
 Red=Cloning site Green=Tags(s)

MPMYQETSEPSLQALESRQDDILKRLYELKAAVDGLSKMIHTPDADLDVTNILQADEPTTLATNTLDLNS
 VLKGDYGALKDIVINANPASPPLSLLVLHRLLCERYRVLSTVHTHSSVKNVPENLVKCFGEQARKQSRHE
 YQLGFTLIWKNVPKTQMKFSVQTMCPIEGEGNIARFLFSLFGQKHNAVTLTLIDSWVDIAMFQLREGSSK
 EKA AVFRSMNSALGRSPWL VGNELTVADVVLWSVLQQTGGSSGAAPTINVQRWLKSCENLAPFSTALQLLK

TRTRPLE - GFP Tag - V

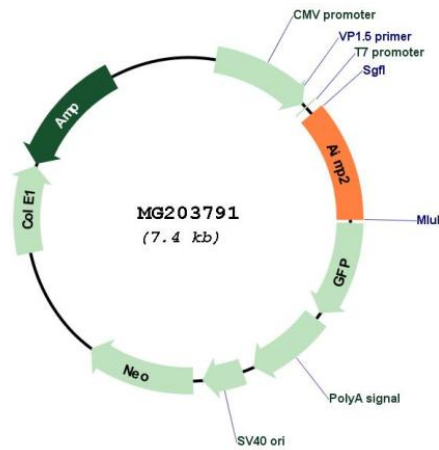
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_146165

ORF Size: 840 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_146165.2
RefSeq Size:	1072 bp
RefSeq ORF:	843 bp
Locus ID:	231872
Cytogenetics:	5 G2
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]