

## Product datasheet for **RG203869**

### **AIMP2 (NM\_006303) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AIMP2 (NM_006303) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AIMP2
Synonyms:	HLD17; JTV-1; JTV1; P38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203869 representing NM_006303 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGATGTACCAGGTAAGCCCTATCACGGGGCGGCGCCTCTCCGTGTGGAGCTCCACCTGCA  
TGTACCGCTCCCAACGTGCACGGCAGGAGCTACGGCCAGCGCGGGCGCTGGCCACGTGCAGGAAGA  
GTCTAACCTGTCTCTGCAAGCTTTGAGTCCCGCCAAGATGATATTTAAAACGTCTGTATGAGTTGAA  
GCTGCAGTTGATGGCCTCTCCAAGATGATCAACACCAGATGCAGACTGGATGTAACCAACATAATCC  
AAGCGGATGAGCCACGACTTTAACCAATGCGCTGGACTTGAATTCAGTGCTTGGGAAGGATTACGG  
GGCGCTGAAAGACATCGTGATCAACGAAACCCGGGCTCCCTCCCTCTCCCTGCTTGTCTGCACAGG  
CTGCTCTGTGAGCACTTCAGGGTCTGTCCACGGTGCACACGCACTCCTCGGTCAAGAGCGTGCCTGAAA  
ACCTTCTCAAGTGCTTTGGAGAACAGAATAAAAAACAGCCCGCCAAGACTATCAGCTGGGATCACTTT  
AATTTGGAAGAATGTGCCGAAGACGAGATGAAATTCAGCATCCAGACGATGTGCCCCATCGAAGGGCAA  
GGAACATTGCACGTTTCTTGTCTCTCTGTTGGCCAGAAGCATAATGTGTCAACGCAACCTTATAG  
ATAGCTGGGTAGATATTGCGATTTTTCAGTTAAAAGAGGAAGCAGTAAAGAAAAAGCCGCTGTTTTCCG  
CTCCATGAACTCTGCTCTTGGGAAGACCCTTGGCTCGCTGGGAATGAACTCACCGTAGCAGACGTGGTG  
CTGTGGTCTGTACTCCAGCAGATCGGAGGCTGCAGTGTGACAGTGCCAGCCAATGTGCAGAGGTGGATGA  
GGTCTTGTGAAAACCTGGCTCCTTTTAACACGGCCCTCAAGCTCCTTAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203869 representing NM\_006303  
 Red=Cloning site Green=Tags(s)

MPMYQVKPYHGGGAPLRVELPTCMYRLPNVHGRSYGPPAGAGHVQEEENLSLQALESRQDDILKRLYELK  
 AAVDGLSKMIQTPDADLDVTNIIQADEPTLTTNALDLNSVLGKDYGALKDIVINANPGSPPLSLLVLHR  
 LLCEHFRVLSTVHTHSSVKSVPENLLKCFGEQNKQPRQDYQLGFTLIWKNVPKTMKFSIQTMCPIEGE  
 GNIARFLFLSFGQKHNAVNATLIDSWVDIAIFQLKEGSSKEKAAVFRSMNSALGKSPWLAGNELTVADV  
 LWSVLQQIGGCSVTPANVQRWMRSCENLAPFNTALKLLK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006303

**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:**

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\\_006303.3](#), [NP\\_006294.2](#)

**RefSeq Size:** 1236 bp

**RefSeq ORF:** 963 bp

**Locus ID:** 7965

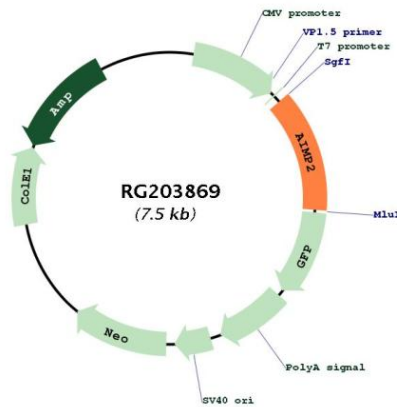
**UniProt ID:** [Q13155](#)

**Cytogenetics:** 7p22.1

**Protein Families:** Stem cell - Pluripotency

**Gene Summary:** The protein encoded by this gene is part of the aminoacyl-tRNA synthetase complex, which contains nine different aminoacyl-tRNA synthetases and three non-enzymatic factors. The encoded protein is one of the non-enzymatic factors and is required for assembly and stability of the complex. [provided by RefSeq, May 2016]

**Product images:**



Circular map for RG203869