

## Product datasheet for **MG200724**

### **Aim2 (NM\_001013779) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aim2 (NM\_001013779) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Aim2  
**Synonyms:** Gm1313; Ifi210  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200724 representing NM\_001013779  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGTCACCACTTCCTCAGTTGTGGTTGATGTTGAATCTAACCACGAAGTCCCAAATAACGTTGTTA  
 AGAGAGCCAGGGAACTCCAGGATTAGTAACTGAAGATTCAGCCATGTGGAACAATTGTGAATGGGCT  
 GTTTAAAGTCCAGAAGATAACAGAGGAAAAAGATAGAGTACTATATGGTATACATGATAAACAGGGACA  
 ATGGAGGTGTTGGTGCTGGGAAACCAAGCAAAACAAAGTGCAGGAAGGAGACAAGATTAGACTCACGT  
 TCTTTGAGGTGTCAAAAAATGGAGTGAAATTCAGTTGAAATCTGGACCTTGAGCTTTTAAAGTTAT  
 TAAGGCTGCAAAGCCAAAACTGACATGAAAGTGTGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200724 representing NM\_001013779  
 Red=Cloning site Green=Tags(s)

MEVTSSSVVDVESNHEVPNNVVKARETPRISKIKIQPCGTIVNGLFKVQKITEEKDRVLYGIHDKTGT  
 MEVLVLGNPSKTKCEEGDKIRLTFEVSKNVGKIQKSGPCSFFKVIKAAKPKTDMKSVE

**TRTRPLE** - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1812\\_e04.zip](https://cdn.origene.com/chromatograms/ja1812_e04.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**



**ACCN:** NM\_001013779

**ORF Size:** 390 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** NM\_001013779.1, NP\_001013801.1

**RefSeq Size:** 1456 bp

**RefSeq ORF:** 1065 bp

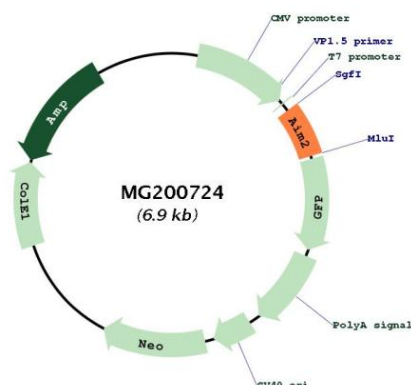
**Locus ID:** 383619

**UniProt ID:** Q91VJ1

**Cytogenetics:** 1 H3

**Gene Summary:** Involved in innate immune response by recognizing cytosolic double-stranded DNA and inducing caspase-1-activating inflammasome formation in macrophages. Upon binding to DNA is thought to undergo oligomerization and to associate with PYCARD initiating the recruitment of caspase-1 precursor and processing of interleukin-1 beta and interleukin-18. Detects cytosolic dsDNA of viral and bacterial origin in a non-sequence-specific manner. Can also trigger PYCARD-dependent, caspase-1-independent cell death that involves caspase-8. [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG200724