

## 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; lfi210  
**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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGTCACCAGTTCCTCAGTTGTGGTTGATGTTGAATCTAACCACGAAGTCCCAAATAACGTTGTTA  
AGAGAGCCAGGAACTCCAGGATTAGTAACTGAAGATTCAGCCATGTGGAACAATTGTGAATGGGCT  
GTTTAAAGTCCAGAAGATAACAGAGGAAAAAGATAGAGTACTATATGGTATACATGATAAAACAGGGACA  
ATGGAGGTGTTGGTGCTGGGAAACCAAGCAAAACAAAGTGCGAGGAAGGAGACAAGATTAGACTCACGT  
TCTTTGAGGTGTCAAAAATGGAGTGAAAATTCAGTTGAAATCTGGACCTGTAGCTTTTTTAAGGTTAT  
TAAGGCTGCAAAGCCAAAACACTGACATGAAAAGTGTGGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

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

**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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**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\\_001013779.1](#), [NP\\_001013801.1](#)

**RefSeq Size:** 1456 bp

**RefSeq ORF:** 1065 bp

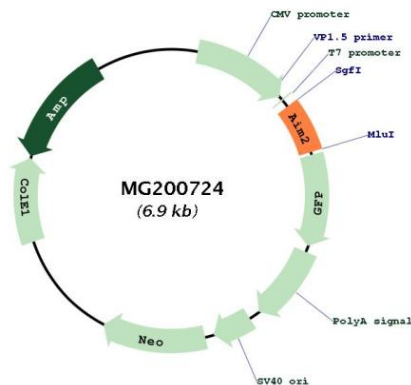
**Locus ID:** 383619

**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