

Product datasheet for **MR200724**

Aim2 (NM_001013779) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aim2 (NM_001013779) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Aim2
Synonyms: Gm1313; Ifi210
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200724 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGTCACCAGTTCCTCAGTTGTGGTTGATGTTGAATCTAACCACGAAGTCCCAAATAACGTTGTTA
AGAGAGCCAGGGAACTCCAGGATTAGTAACTGAAGATTCAGCCATGTGGAACAATTGTGAATGGGCT
GTTTAAAGTCCAGAAGATAACAGAGGAAAAAGATAGAGTACTATATGGTATACATGATAAAACAGGGACA
ATGGAGGTGTTGGTGCTGGGAAACCAAGCAAAACAAAGTCCGAGGAAGGAGACAAGATTAGACTCACGT
TCTTTGAGGTGTCAAAAATGGAGTGAAAATTCAGTTGAAATCTGGACCTGTAGCTTTTTTAAGGTTAT
TAAGGCTGCAAAGCCAAAACACTGACATGAAAAGTGTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200724 protein sequence
Red=Cloning site Green=Tags(s)
MEVTSSSVVDVESNHEVPNNVVKRARETPRISKLIQPCGTIVNGLFKVQKITEEKDRVLYGIHDKTGT
MEVLVLGNPSKTKCEEGDKIRLTFEVSKNVGIQLKSGPCSFVKVIAAKPKTDMKSVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-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 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.

RefSeq: [NM_001013779.2](#)

RefSeq Size: 2541 bp

RefSeq ORF: 1065 bp

Locus ID: 383619

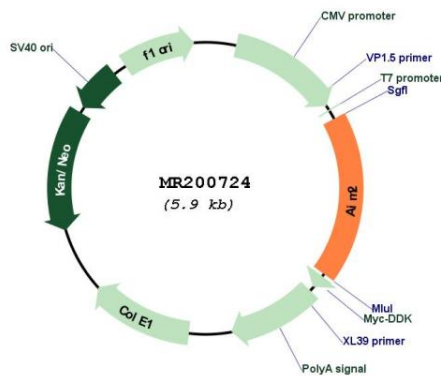
UniProt ID: [Q91VJ1](#)

Cytogenetics: 1 H3

MW: 14.5 kDa

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 MR200724