

Product datasheet for RC203120

AIM2 (NM_004833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIM2 (NM_004833) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AIM2
Synonyms:	PYHIN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203120 representing NM_004833 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGAGAGTAAATACAAGGAGATACTCTTGCTAACAGGCCTGGATAACATCACTGATGAGGAACTGGATAGTTAAGTTCTTTCTTTTCAGACGAGTTAATATTGCCACAGGCAAACTACATACTGCAAACAGAATACAGTAGCTACCTTGATGATTCAAATGCTGGGGCGGTGCTGCAGTGATGAAGACCATTTCGATTTTTTCAG AAGTTGAATTATATGCTTTTGGCAAACGTCCTCAGGAGGAGAAGGAGAAAGTTGATAAGCAATACAATCGGTAACAAAACCAAGCCACTAAGTCAAGCTGAAATGAGTCCTGCTGCATCTGCAGCCATCAGAAATGATGTCGCAAAGCAACGTGCTGCACCAAAGTCTCTCCTCATGTTAAGCCTGAACAGAAACAGATGGTGGCC CAGCAGGAATCTATCAGAGAAGGGTTTCAGAAGCGCTGTTTGCCAGTTATGGTACTGAAAGCAAAGAAGC CTTTACAGTTTGAGACCCAAGAAGGCAAGCAGGAGATGTTTCATGCTACAGTGGCTACAGAAAAGGAATTCTTCTTTGTAAGTTTAAATACACTGCTGAAAGATAAATTCATTCCAAGAGAATAATTATAATAGCAAGATATTATCGGCACAGTGGTTTCTTAGAGGTAATAGCGCTCACGTGTGTTAGATGCTGAATCTGACC AAAAGTTAATGTCCCGCTGAACATTATCAGAAAAGCTGGTGAACCCGAAGATCAACACGCTTCAAAC TCAGCCCCTTGAACAATTGTGAATGGTTTGTGTTAGTCCAGAAGGTAACAGAAAAGAAGAAAAACATA TTATTTGACCTAAGTGACAACACTGGGAAAATGGAAGTACTGGGGTTAGAAACGAGGACACAATGAAATGTAAGGAAGGAGATAAGGTTTCGACTTACATTCTCACACTGTCAAAAAATGGAGAAAAACTACAGCTGAC ATCTGGAGTTCATAGCACCATAAAGTTATTAAGGCCAAAAAAAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203120 representing NM_004833
Red=Cloning site Green=Tags(s)

MESKYKEILLLTGLDNITDEELDRFKFFLSDEFNIATGKLHTANRIQVATLMIQNAGAVSAVMKTIRIFQ
 KLNMYLLAKRLQEEKEKVDKQYKSVTKPKPLSQAEMSPAASAAIRNDVAKQRAAPKVSPHYKPEQKQMV
 QQESIREGFQKRCLPVMVLKAKKPFETFQEGKQEMFHATVATEKEFFFVKVFNTLLKDKFIPKRIIIIA
 RYYRHSGFLEVNSASRVLDAESDQKVNPLNIIRKAGETPKINTLQTQPLGTIVNGLFVVQKVKTEKKNI
 LFDLSDNTGKMEVLGVRNEDTMKCKEGDKVRLTFFFLSKNGEKLQLTSGVHSTIKVIKAKKKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_004833

ORF Size: 1029 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.

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

RefSeq: [NM_004833.3](#)

RefSeq Size: 1485 bp

RefSeq ORF: 1032 bp

Locus ID: 9447

UniProt ID: [O14862](#)

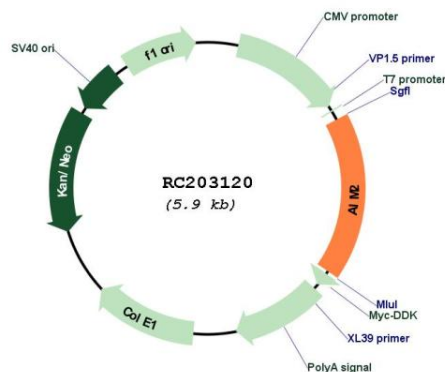
Cytogenetics: 1q23.1-q23.2

Protein Pathways: Cytosolic DNA-sensing pathway

MW: 38.8 kDa

Gene Summary: AIM2 is a member of the IFI20X /IFI16 family. It plays a putative role in tumorigenic reversion and may control cell proliferation. Interferon-gamma induces expression of AIM2. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC203120