

## Product datasheet for **RG208175**

### MAVS (NM\_020746) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAVS (NM_020746) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAVS
Synonyms:	CARDIF; IPS-1; IPS1; VISA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208175 representing NM\_020746  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGTTTGGCTGAAGACAAGACCTATAAGTATATCTGCCCAATTTTCAGCAATTTTGGCAATGTGGATG  
 TTGTAGAGATTCTGCCTTACCTGCCTGCCTCACAGCAAGAGACCAGGATCGACTGCGGGCCACCTGCAC  
 ACTCTCAGGGAACCGGGACACCTCTGGCATCTCTTCAATACCCTTCAGCGGGCGGCCCGGCTGGGTGGAG  
 TACTTCATTGCGGCACTGAGGGGCTGTGAGCTAGTTGATCTCGCGGACGAAGTGGCCTCTGTCTACGAGA  
 GCTACCAGCCTCGGACCTCGGACCGTCCCCAGACCCACTGGAGCCACCGTCACTTCCTGCTGAGAGGCC  
 AGGGCCCCCACACCTGCTGCGGCCACAGCATCCCCTACAACAGCTGCAGAGAGAAGGAGCCAAGTTAC  
 CCCATGCCTGTCCAGGAGACCCAGGCGCCAGAGTCCCAGGAGAGAATTCAGAGCAAGCCCTGCAGACGC  
 TCAGCCCCAGAGCCATCCAAGGAATCCAGATGGTGGCCCCCTGGAGTCTCCTCTGACCTGGCAGCCCT  
 CAGCCCTCTGACCTCCAGCGGGCATCAGGAGAAGGACACAGAACGGGCAGTACCCACACAGCAGGTGCG  
 ACCTCCAGCCTCACACCATCCCCTGGGCCCTGTGTCTCCATCTGTCTCCTCCAGCCCTGGCCCGTTCCA  
 CCCCCAGGGCAAGCCGCTTGCTGGACCCACAGGGTCAGTTGATCTACTGGCACCTCCTCTCCTCCTC  
 ATCCCCTGGCTTGGCCTCTGAGGGGCTGCAGAGGGTAAACAGGGTGCAGAGAGTGACCAGGCCGAGCCT  
 ATCATCTGCTCCAGTGGGGCAGAGGCACCTGCCAACTCTCTGCCCTCAAAGTGCCTACCACCTTGATGC  
 CTGTGAACACAGTGGCCCTGAAAGTGCCTGCCAACCCAGCATCTGTGACACAGTGCCTCCAAGTTGCC  
 AACTAGCTCAAAGCCCCCTGGTGCAGTGCCTTCTAATGCGCTCACCAATCCAGCACCATCCAATTGCCC  
 ATCAACTCAACCCGCTGGCATGGTGCATCCAAAGTGCCTACTAGCATGGTGCCTACCAAGGTGTCTG  
 CCAGCACAGTCCCCTACTGACGGGAGCAGCAGAAATGAGGAGACCCAGCAGCTCCAACACCCCGCGGCG  
 CACTGGAGGCAGCTCAGCCTGGCTAGACAGCAGCTTTGAGAATAGGGGCCCTTGGGTCGGAGCTGAGTAAG  
 CCTGGCGTGTGGCATCCAGGTAGACAGCCGTTCTCGGGCTGCTTCGAGGATCTTGCCATCAGTGCCA  
 GCACCTCCTTGGGCATGGGGCCCTGCCATGGCCAGAGGAGAATGAGTATAAGTCCGAGGGCACCTTTGG  
 GATCCACGTGGCTGAGAACCCAGCATCCAGCTCCTGGAGGGCAACCCTGGGCCACCTGCGGACCCGGAT  
 GGCGGCCCCAGGCCACAAGCCGACCGGAAGTCCAGGAGAGGGAGGTGCCATGCCACAGGCCCTCACCTG  
 GGGCTCTGTGGCTCCAGGTGGCTGTGACAGGGGTGCTGGTAGTCACACTCCTGGTGGTGTGACCGGCC  
 GCGTCTGCAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG208175 representing NM\_020746  
 Red=Cloning site Green=Tags(s)

MPFAEDKTYKYICRNFSNFCNVDVVEILPYLPCLTARDQDRLRATCTLSGNRDRTLWHLFNTLQRRPGWVE  
 YFIAALRGCELVDLADEVASVYESYQPRSDRPPDLEPPSLPAERPGPPTPAAAHSHIPYNSCREKEPSY  
 PMPVQETQAPESPGENSEQALQTLSPRAIPRNPDPGGPLESSDLAAL SPLTSSGHQEKDTELGSTHTAGA  
 TSSLTPSRGPVSPVSFQPLARSTPRASRLPGPTGSVSTGTFSSSSPGLASAGAAEGKQGAESDQAP  
 IICSSGAEAPANSLPSKVPTTLMVNTVALKVPANPASVSTVPSKLPSTSSKPPGAVPSNALNTPAPSKLP  
 INSTRAGMVPKSVPTSMVLTKVSASTVPTDSSRNEETPAAPTPAGATGGSSAWLDSSFENRGLGSEL SK  
 PGVLASQVDSPFSGCFEDLAISASTSLGMGPCHGPEENEYKSEGTFGIHVAENPSIQLLEGNPGPPADPD  
 GGPRPQADRKFQEREVPCHRPSGALWLQVAVTGVLVVTLVVLYRRRLH

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_020746

**ORF Size:** 1620 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](#)

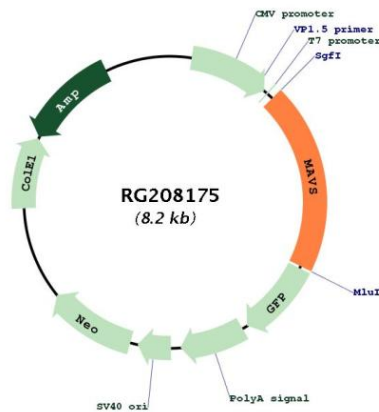
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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.

**RefSeq:** [NM\\_020746.2, NP\\_065797.2](#)  
**RefSeq Size:** 2936 bp  
**RefSeq ORF:** 1623 bp  
**Locus ID:** 57506  
**UniProt ID:** [Q7Z434](#)  
**Cytogenetics:** 20p13  
**Protein Families:** Transmembrane  
**Protein Pathways:** Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway  
**Gene Summary:** This gene encodes an intermediary protein necessary in the virus-triggered beta interferon signaling pathways. It is required for activation of transcription factors which regulate expression of beta interferon and contributes to antiviral innate immunity. [provided by RefSeq, Jul 2020]

### Product images:



Circular map for RG208175