

## Product datasheet for **MG208088**

### Mavs (NM\_144888) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mavs (NM_144888) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mavs
Synonyms:	cardif; D430028G21Rik; IPS-1; Visa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208088 representing NM\_144888  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACATTTGCTGAGGACAAGACCTATAAGTATATCCGAGACAACCACAGCAAGTTTTGCTGTGTTGACG  
 TTCTGGAGATCCTGCCTTACCTGTCCTGCCTCACAGCTAGTGACCAGGATCGACTGCGGGCTTCTACAG  
 GCAGATCGGGAACCGGGACACACTCTGGGGACTCTTCAATAATCTCCAGCGCCGGCTGGCTGGGTGGAG  
 GTCTTCATCCGGGCACTGCAGATCTGTGAGCTGCCTGGGCTGGCTGATCAAGTGACTCGAGTTTATCAGA  
 GCTACCTGCCTCCGGGACCTCACTCCGCTCCCTAGAGCCACTGCAGTTACCAGACTTCTCTGCTGCGGT  
 TTCTGGACCTCTGCATTTGCGCCAGGTCACAACATCCCTGACCATGGCTTACGAGAGACACCAAGTTGC  
 CCCAAGCCTGTCCAGGACACCCAGCCACCAGAGTCCCAGTAGAGAATTCAGAGCAACTCTCCAGACCA  
 ACTCCGGGCGGTCCGCGAGGATGTCTGGTGGCTCTTTGATACCCTCTCTAACCAGCAGGCTCTCAGCCC  
 TCAGCCCTCCAGAGAGCATCAAGAGCAAGAACCAGAAGTGGTGGCGCCACGCAGCAAAATGTTGCCTCT  
 GTTCCCATAGCAACCTATGGACCTGTGTCTCCAACCGTTTCTTCCAGCCCTTCCACGTAAGTCCCTGA  
 GGACAAACCTCTTGTCTGGGGTCACAGTATCAGCCCTATCTGCTGATACCTCTTTGCTCCTCTGTCAC  
 TGGATCAGCTTTTCAAAGGGAGCTGGTGACCAGGCCAAAGCTGCCACCTGTTTCAAGTACTACACTCACC  
 AATTCTGTGACTACCAGCTCAGTGCCTTCTCCAGATTGGTCCCAGTAAAAACCATGTCTTCCAAGTTGC  
 CCCTCAGTTCAAAGTCCACTGCTGCGATGACGTCTACTGTGCTCACCAATACAGCGCCATCAAAATTACC  
 CAGCAACTCAGTGTATGCGGGCACAGTGCCATCCAGAGTGCTGCTAGTGTGGCCAAAGCACCTGCCAAC  
 ACAATACCACCTGAGAGGAACAGCAAGCAAGCAAGGAGACCCCGAGGGTCCAGCAACCAAGTACCA  
 CTGGAGGCAACCAGACTGGACCAATAGCAGTATCAGGAGCTTGCACTCTGGACCAGAGATGAGCAAGCC  
 AGGTGTGCTGGTATCCCAGTTGGACGAGCCATTCTCAGCCTGCTCTGTGGACCTTGCCATTAGCCCTAGC  
 AGCTCCTTGGTCTCAGAACCAACCATGGTCCAGAGGAGAATGAGTATTGCTCCTTTAGAATCCAGGTAG  
 ACGAAAGCCCGAGTGTGATCTATTAGGAAGCCCTGAGCCACTAGCCACCCAGCAGCCCCAAGAAGAGGA  
 AGAACATTGTGCCAGTTCAATGCCCTGGGCTAAGTGGCTTGGGGCCACCAGTGCCTCTTGGCTGTATTC  
 CTGGCAGTGATGCTGTACCGTAGTAGGCCCTGGCCAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208088 representing NM\_144888  
 Red=Cloning site Green=Tags(s)

MTFAEDKTYKYIRDNHSKFCCVDVLEILPYLSCLTASDQDRLRASRQIGNRDLWGLFNNLQRRPGWVE  
 VFIRALQICELPGLADQVTRVYQSYLPPGTSLSRLEPLQLPDFPAAVSGPSAFAPGHNIIPDHGLRETPSC  
 PKPVQDTQPPEPVENSEQLLQTN SGAVARMSGGSLIPSPNQALSPQPSREHQEQEPELGGAAHANVAS  
 VPIATYGPVSPVTSFQPLPRTALRNLNLSGVTVSAL SADTSLSSSTGSAF AKGAGDQAKAATCFSTTLT  
 NSVTTSSVSPRLVPVKTMSSKLPSSKSTAAMTSTVL TNTAPSKLPSNSVYAGTVPSRVPASVAKAPAN  
 TIPPENRSKQAKETPEGPATKVTTGGNQTGNSSIRSLHSGPEMSKPGVLVSQLDEPFSACSVDLAISPS  
 SSLVSEPNHGPEENEYSSFRIQVDESPSADLLGSPEPLATQQPQEEEEHCASSMPWAKWLGATSALLAVF  
 LAVMLYRSRRLAQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_144888

**ORF Size:** 1509 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.

**RefSeq:** [NM\\_144888.2](#)

**RefSeq Size:** 3036 bp

**RefSeq ORF:** 1512 bp

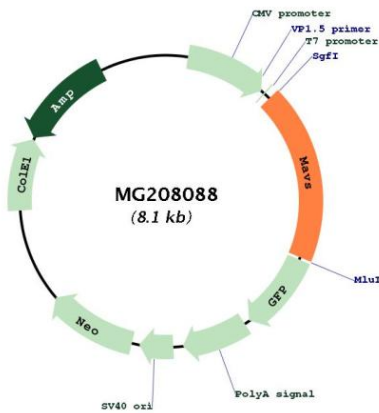
**Locus ID:** 228607

**UniProt ID:** [Q8VCF0](#)

**Cytogenetics:** 2 F1

**Gene Summary:**

Required for innate immune defense against viruses (PubMed:24037184). Acts downstream of DHX33, DDX58/RIG-I and IFIH1/MDA5, which detect intracellular dsRNA produced during viral replication, to coordinate pathways leading to the activation of NF-kappa-B, IRF3 and IRF7, and to the subsequent induction of antiviral cytokines such as IFN-beta and RANTES (CCL5) (PubMed:24037184). Peroxisomal and mitochondrial MAVS act sequentially to create an antiviral cellular state (By similarity). Upon viral infection, peroxisomal MAVS induces the rapid interferon-independent expression of defense factors that provide short-term protection, whereas mitochondrial MAVS activates an interferon-dependent signaling pathway with delayed kinetics, which amplifies and stabilizes the antiviral response (By similarity). May activate the same pathways following detection of extracellular dsRNA by TLR3 (By similarity). May protect cells from apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MG208088