

## Product datasheet for **MR208088**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mavs (NM_144888) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mavs
Synonyms:	cardif; D430028G21Rik; IPS-1; Visa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208088 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACATTTGCTGAGGACAAGACCTATAAGTATATCCGAGACAACCACAGCAAGTTTTGCTGTGTTGACG  
 TTCTGGAGATCCTGCCTTACCTGTCCTGCCTCACAGCTAGTGACCAGGATCGACTGCGGGCTTCTACAG  
 GCAGATCGGGAACCGGGACACACTCTGGGGACTTTCAATAATCTCCAGCGCCGGCTGGCTGGGTGGAG  
 GTCTTCATCCGGGCACTGCAGATCTGTGAGCTGCCTGGGCTGGCTGATCAAGTGACTCGAGTTTATCAGA  
 GCTACCTGCCTCCGGGACCTCACTCCGCTCCCTAGAGCCACTGCAGTTACCAGACTTCTCTGCTGCGGT  
 TTCTGGACCTCTGCATTTGCGCCAGGTCACAACATCCCTGACCATGGCTTACGAGAGACACCAAGTTGC  
 CCCAAGCCTGTCCAGGACACCCAGCCACCAGAGTCCCAGTAGAGAATTCAGAGCAACTCTCCAGACCA  
 ACTCCGGGGCCGTCGCGAGGATGTCTGGTGGCTTTTGATACCCTCTCTAACCAGCAGGCTCTCAGCCC  
 TCAGCCCTCCAGAGAGCATCAAGAGCAAGAACCAGAAGTGGTGGCGCCACGCAGCAAAATGTTGCCTCT  
 GTTCCCATAGCAACCTATGGACCTGTGTCTCCAACCGTTTCTTCCAGCCCTTCCACGTAAGTGCCTGA  
 GGACAAACCTCTTGTCTGGGGTCACAGTATCAGCCCTATCTGCTGATACCTCTTTGCTCCTCTGCTCCAC  
 TGGATCAGCTTTTGCAAAGGGAGCTGGTGACCAGGCCAAAGCTGCCACCTGTTTTCAGTACTACACTCACC  
 AATTCTGTGACTACCAGCTCAGTGCCTTCTCCAGATTGGTCCCAGTAAAAACCATGTCTTCCAAGTTGC  
 CCCTCAGTTCAAAGTCCACTGCTGCGATGACGCTACTGTGCTCACCAATACAGCGCCATCAAAATTACC  
 CAGCAACTCAGTGTATGCGGGCACAGTGCCATCCAGAGTGCCTGCTAGTGTGGCCAAAGCACCTGCCAAC  
 ACAATACCACCTGAGAGGAACAGCAAGCAAGCAAGGAGACCCCGAGGGTCCAGCAACCAAGTACCA  
 CTGGAGCAACCCAGACTGGACCAATAGCAGTATCAGGAGCTTGCCTCTGGACCAGAGATGAGCAAGCC  
 AGGTGTGCTGGTATCCCAGTTGGACGAGCATTCTCAGCCTGCTCTGTGGACCTTGCCATTAGCCCTAGC  
 AGCTCCTTGGTCTCAGAACCAACCATGGTCCAGAGGAGAATGAGTATTGCTCCTTTAGAATCCAGGTAG  
 ACGAAAGCCCCAGTGTGATCTATTAGGAAGCCCTGAGCCACTAGCCACCCAGCAGCCCCAAGAAGAGGA  
 AGAACATTGTGCCAGTTCATGCCCTGGGCTAAGTGGCTTGGGGCCACCAGTGCCTCTTGGCTGTATTC  
 CTGGCAGTGTGCTGTACCGTAGTAGGCGCTGGCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208088 protein sequence  
 Red=Cloning site Green=Tags(s)

MTFAEDKTYKYIRDNHSKFCCVDVLEILPYLSCLTASDQDRLRASRYRQIGNRDLWGLFNNLQRRPGWVE  
 VFIRALQICELPGLADQVTRVYQSYLPPGTSLSRSLEPLQLPDFPAAVSGPSAFAPGHNIPDHGLRETPSC  
 PKPVQDTQPPEPSENSEQLLQTNNGAVARMSGSLIPSPNQALSPQPSREHQEQEPELGGAAHANVAS  
 VPIATYGPVSPVTFQPLPRTALRTNLLSGVTVSALSADTSLSSSTGSAFAKAGDQAKAATCFSTTLT  
 NSVTTSSVSPRLVPVKTMSSKLPLSSKSTAAMTSTVL TNTAPSKLPSNSVYAGTVPSRVPASVAKAPAN  
 TIPPENRSKQAKETPEGPATKVTGNGTGNSSIRSLHSGPEMSKPGVLSQLDEPFSACSVDLAISPS  
 SSLVSEPNHGPEENEYSSFRIQVDESPSADLLGSPEPLATQQPQEEEEHCASSMPWAKWLGATSALLAVF  
 LAVMLYRSRRLAQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_144888

**ORF Size:** 1512 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:** 3099 bp

**RefSeq ORF:** 1512 bp

**Locus ID:** 228607

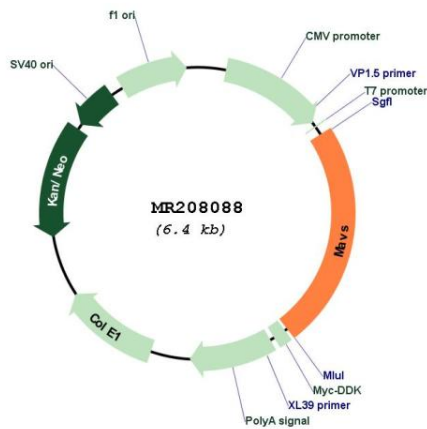
**UniProt ID:** [Q8VCF0](#)

**Cytogenetics:** 2 F1

MW: 53.4 kDa

**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 MR208088