

Product datasheet for **MC228071**

Mavs (NM_001206385) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Mavs (NM_001206385) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Mavs |
| Synonyms: | cardif; D430028G21Rik; IPS-1; Visa |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC228071 representing NM_001206385
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACATTTGCTGAGGACAAGACCTATAAGTATATCCGAGACAACCACAGCAAGTTTTGCTGTGTTGACG
 TTCTGGAGATCCTGCCTTACCTGTCCTGCCTCACAGCTAGTGACCAGGATCGACTGCGGGCTTCCTACAG
 GCAGATCGGGAACCGGGACACACTCTGGGGACTCTTCAATAATCTCCAGCGCCGGCTGGCTGGGTGGAG
 GTCTTCATCCGGGCACTGCAGATCTGTGAGCTGCCTGGGCTGGCTGATCAAGTACTCGAGTTTATCAGA
 GCTACCTGCCTCCGGGACCTCACTCCGCTCCCTAGAGCCACTGCAGTTACCAGACTTTCCTGCTGCGGT
 TTCTGGACCTCTGCATTTGCGCCAGGTCAACAATCCCTGACCATGGCTTACGAGAGACACCAAGTTGC
 CCCAAGCCTGTCCAGGACACCCAGCCACCAGAGTCCCAGTAGAGAATTCAGAGCAACTCCTCCAGACCA
 ACTCCGGGGCCGTCGCGAGGATGTCTGGTGGCTCTTTGATACCCTCTCCTAACCCAGCAGGCTCTCAGCCC
 TCAGCCCTCCAGAGAGCATCAAGAGCAAGAACCAGAAGTGGGTGGCGCCACGCAGCAAAATGTTGCCTCT
 GTTCCCATAGCAACCTATGGACCTGTGTCTCCAACCGTTTCCTTCCAGCCCTTCCACGTAAGTGCCTGA
 GGACAAACCTCTTGTCTGGGGTCACAGTATCAGCCCTATCTGCTGATACCTCTTTGTCCTCCTCGTCCAC
 TGGATCAGCTTTTCAAAGGGAGCTGGTACCAGGCCAAAGTGCACCTGTTTTCAGTACTACACTCACC
 AATTCTGTGACTACCAGCTCAGTGCCTTCTCCAGATTGGTCCCAGTAAAAACCATGTCTTCCAAGTTGC
 CCCTCAGTTCAAAGTCCACTGCTGCGATGACGTCTACTGTGCTCACCAATACAGCGCCATCAAAATTACC
 CAGCAACTCAGTGTATGCGGGCACAGTGCCATCCAGAGTGCCTGCTAGTGTGGCCAAAGCACCTGCCAAC
 ACAATACCACCTGAGAGGAACAGCAAGCAAGCCAAGGAGACCCCGAGGGTCCAGCAACCAAGTACCA
 CTGGAGGCAACCAGACTGGACCAATAGCAGTATCAGGAGCTTGCACTCTGGACCAGAGATGAGCAAGCC
 AGGTGTGCTGGTATCCCAGTTGGACGAGCCATTCTCAGCCTGCTCTGTGGACCTTGCCATTAGCCCTAGC
 AGCTCCTTGGTCTCAGAACCAACCATGGTCCAGAGGAGAATGAGTATTGTCCTTTAGAATCCAGGTAG
 ACGAAAGCCCCAGTGCTGATCTATTAGGAAGCCCTGAGCCACTAGCCACCCAGCAGCCCCAAGAAGAGGA
 AGAACATTGTGCCAGTTCAATGCCCTGGGCTAAGTGGCTTGGGGCCACCAGTGCCTCTTGGCTGTATTC
 CTGGCAGTGATGCTGTACCGTAGTGGCGCTGGCCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001206385
- Insert Size:** 1512 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001206385.1](#), [NP_001193314.1](#)

RefSeq Size: 2871 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]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.