

Product datasheet for **MR229300**

Mavs (NM_001206382) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mavs (NM_001206382) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mavs
Synonyms: cardif; D430028G21Rik; IPS-1; Visa
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229300 representing NM_001206382
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTGGTGGCTCTTTGATACCTCTCCTAACCAGCAGGCTCTCAGCCCTCAGCCCTCCAGAGAGCATC
AAGAGCAAGAACCAGAAGTGGTGGCGCCACGCAGCAAATGTTGCCTCTGTTCCCATAGCAACCTATGG
ACCTGTGTCTCCAACCGTTTCTTCCAGCCCTTCCACGTAAGTGCCTGAGGACAAACCTTTGTCTGGG
GTCACAGTATCAGCCCTATCTGCTGATACCTCTTTGTCCTCCTCGTCCACTGGATCAGCTTTGCAAAGG
GAGCTGGTGACCAGGCCAAAGCTGCCACCTGTTTCAGTACTACACTACCAATTCTGTGACTACCAGCTC
AGTGCCTTCTCCAGATTGGTCCAGTAAAAACCATGTCTTCCAAGTTGCCCTCAGTTCAAAGTCCACT
GCTGCGATGACGTCTACTGTGCTACCAATACAGCGCCATCAAAATTACCCAGCAACTCAGTGTATGCGG
GCACAGTGCCATCCAGAGTGCCTGCTAGTGTGGCCAAAGCACCTGCCAACACAATACCACCTGAGAGGAA
CAGCAAGCAAGCCAAGGAGACCCCGAGGGTCCAGCAACCAAGTCACTGGAGGCAACCAGACTGGA
CCAAATAGCAGTATCAGGAGCTTGCACTCTGGACCAGAGATGAGCAAGCCAGGTGTGCTGATCCAGT
TGGACGAGCCATTCTCAGCCTGCTCTGTGGACCTTGCCATTAGCCCTAGCAGCTCCTTGGTCTCAGAAC
CAACCATGGTCCAGAGGAGAATGAGTATTCGTCCTTTAGAATCCAGGTAGACGAAAGCCCAAGTGCCTGAT
CTATTAGGAAGCCCTGAGCCACTAGCCACCCAGCAGCCCAAGAAGAGGAAGAACATTGTGCCAGTTCAA
TGCCCTGGGCTAAGTGGCTTGGGGCCACCAGTGCCTTGGCTGTATTCTGGCAGTGATGCTGTACCG
TAGTAGGCGCCTGGCCAG

ACGGTACGGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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:	<ol style="list-style-type: none">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_001206382.1 , NP_001193311.1
RefSeq Size:	2962 bp
RefSeq ORF:	1002 bp
Locus ID:	228607
Cytogenetics:	2 F1
MW:	34.8 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]